University of Virginia
The Colgate Darden Graduate School of Business Administration

Consumer Price Indicators for Virginia Metropolitan Areas, 1979

Eleanor G. May

Tayloe Murphy Institute

BEST AVAILABLE COPY

TAYLOE MURPHY INSTITUTE
P. O. Box 6550
University of Virginia
Charlottesville, Virginia 22906

Charles O. Meiburg
Director
Professor of Business Administration

Eleanor G. May
Research Director
Business Studies Center;
Professor of Business Administration

John L. Knapp
Research Director
Economic Studies Center;
Associate Professor

William J. Serow
Research Director
Population Studies Center;
Associate Professor

Jennifer Backman
Research Assistant

Debra L. Bassert
Research Assistant

Jeffrey T. Frederick
Research Assistant

Charlotte H. Scott
Research Associate;
University Professor of Business Administration and Commerce

Julia H. Martin
Research Associate;
Assistant Professor

Michael A. Spar
Research Associate

David C. Hodge
Research Economist

Robin L. Lassiter
Research Assistant

Katherine S. Pollok
Research Assistant

Barry A. Jackson
Illustrator

The Tayloe Murphy Institute, which was privately funded by friends of W. Tayloe Murphy and by the Virginia business community, began functioning in 1967 as a research affiliate of the University of Virginia Graduate School of Business Administration. In 1972 the Institute merged with the Bureau of Population and Economic Research, which had evolved from state population and economic research programs in the 1940's. The Tayloe Murphy Institute conducts research of potential usefulness to business, government, or the public.

University of Virginia
The Colgate Darden Graduate School of Business Administration

Consumer Price Indicators for Virginia Metropolitan Areas, 1979

Eleanor G. May

November 1979

Tayloe Murphy Institute Charlottesville, Virginia

Preface

In 1975, the Tayloe Murphy Institute added to its regular studies one on the relative cost of living in Virginia metropolitan areas, with the hope that it might present sufficiently reliable data to be useful by individuals, government agencies, and businesses in Virginia. That the findings are useful to Virginians has been quite evident from the response received beginning with the publication of the 1975 data. Questions about the cost of living and how to use the data are received from many sources. Because of this enthusiastic response, the study has been conducted each year since. The present study is the fifth in what we hope will be a continuing series on relative price levels for Virginia metropolitan areas. This report presents the findings of the 1979 study, plus a few revisions in the earlier data.

The 1979 study, like the previous studies, was under the general supervision of Eleanor G. May, Research Director, Business Studies Center. The major aspects of the project this year, including organization and supervision of the field work, as well as working with the computer processing of the data and the preparation of the tables were the responsibility of Robin L. Lassiter, Research Assistant of the Tayloe Murphy Institute. Assistance was supplied to the project by Mary L. Einhaus and Claudia D. Ford, students at The Colgate Darden Graduate School of Business Administration. Michael J. Dwyer of the University of Virginia Computer Science Center programmed the data. The field research was conducted by Brett R. Burkhart, Margo L. Caldwell, Scott A. Davis, Mary Lou Gantzer, and Rebecca Garver, along with Chris E. Pikrallidas, Susan J. Schlamb, and Mary E. Sisak. Georgiana C. Shabanowitz typed the manuscript and prepared many of the forms and other materials used in the survey. Barry A. Jackson was responsible for the graphics.

We are also grateful for the assistance of all the business and professional people in Virginia who supplied us with the data for the survey, without which the project would have been impossible.

Charles O. Meiburg
Director
Tayloe Murphy Institute

Table of Contents

Preface.....iii

I. Introduction..... 1

II. Relative Price Indices..... 5

III. Annual Price Level Changes..... 15

IV. Techniques Used in the Development of Consumer Price Indices for Virginia..... 23
A. Item Selection..... 24
B. Relative Importance Weights..... 26
C. Item Definitions..... 27

Appendix - United States Consumer Price Index Weights and Derived Virginia Survey Weights; Relative Consumer Price Indices and Percentage Changes in Price Levels: 1975, 1976, 1977, and 1978..... 33

Tables

1. Total Relative Consumer Price Indices, Eight Virginia Metropolitan Areas: 1975-1979.. 6

2. Population, Income, and Sales Data, Eight Virginia Metropolitan Areas..... 7

3. Relative Consumer Price Indices, Eight Virginia Metropolitan Areas: 1979..... 8

4. Changes in Consumer Price Levels, Eight Virginia Metropolitan Areas..... 15

5. Changes in Consumer Price Levels: United States..... 16

6. Changes in Consumer Price Levels: Charlottesville-Albemarle County..... 17

7. Changes in Consumer Price Levels: Lynchburg..... 18

8. Changes in Consumer Price Levels: Newport News-Hampton..... 18

9. Changes in Consumer Price Levels: Norfolk-Virginia Beach-Portsmouth..... 19

10. Changes in Consumer Price Levels: Northern Virginia..... 20

11. Changes in Consumer Price Levels: Petersburg-Colonial Heights-Hopewell..... 20

12. Changes in Consumer Price Levels: Richmond..... 21

13. Changes in Consumer Price Levels: Roanoke..... 22

14. United States Consumer Price Index Weights and Derived Virginia Survey Weights..... 34

15. Relative Consumer Price Indices, Eight Virginia Metropolitan Areas: 1978..... 46

16. Relative Consumer Price Indices, Eight Virginia Metropolitan Areas: 1977..... 48

17. Relative Consumer Price Indices, Eight Virginia Metropolitan Areas: 1976..... 50

18. Relative Consumer Price Indices, Eight Virginia Metropolitan Areas: 1975..... 52

19. Changes in Consumer Price Indices, Eight Virginia Metropolitan Areas: 1979 Over 1978. 54

20. Changes in Consumer Price Indices, Eight Virginia Metropolitan Areas: 1978 Over 1977. 55

21. Changes in Consumer Price Indices, Eight Virginia Metropolitan Areas: 1977 Over 1976. 56

22. Changes in Consumer Price Indices, Eight Virginia Metropolitan Areas: 1976 Over 1975. 57

Chart

1. Relative Consumer Price Indices, Eight Virginia Metropolitan Areas: 1975-1979..... 5

I. Introduction

Variations in the relative price indices among different areas have many causes. The primary reasons for variations, obviously, are the variations in the prices paid by residents of the areas for their consumer expenditures, that is for the acquisition of their "market basket" of purchases of the goods and services incurred to satisfy their needs and wants.

Prices vary from one location to another as a result of a number of factors. One cause of variation is the cost of the raw materials required to produce the good or service the consumer is acquiring, e.g., differences between the cost of energy produced from coal and energy produced from oil, or differences between the cost of fresh fruits or vegetables in the South and the cost in the Northern tier of the United States. Another cause of price variation among several areas is the cost of transporting the good or service to the market area, e.g., the cost of coal in Southwestern Virginia where the mines are located, compared with the cost of coal in Northern Virginia. Still another factor is the result of the variation in demand for the product which affects the cost, e.g., the cost of land, a direct component not only of housing but also an indirect component of almost all other costs, in heavily urbanized areas compared with the cost in less densely populated areas. In fact the differences among land costs may be the most significant cause of regional variation.

Differing local costs of doing business probably cause the second largest part of the variation in the costs among the different areas. And payroll is the major variable in the costs of doing business, which must be included in the price of the finished product or service before being sold to the consumer.

The usual objective of a study of consumer price levels is to measure differences in the cost of living among various groups of consumers, those in different geographic areas, different income classes, different family composition, and so forth. This study of prices in Virginia, as is common to most studies of living costs, estimates differences by measuring differences in the prices paid by consumers. Variations in the standards of living of these consumers, however, are not fully considered. Therefore, the indices presented here do not completely reflect the differing life styles which may exist across the state. However, the procedures used in this project, adapted from those used by the United States Bureau of Labor Statistics in developing consumer price indicators, do reflect some life style differential.

This publication reports on the fifth annual study completed by the Tayloe Murphy Institute of The Colgate Darden Graduate School of Business Administration of the University of Virginia. Prices were measured in the summer of 1979 for a market basket of items, a market basket that was comparable with the ones used for the earlier studies. From these item prices, relative item price indices were calculated for each of the geographic areas covered: the Standard Metropolitan Statistical Areas of Lynchburg, Newport News-Hampton, Norfolk-Virginia Beach-Portsmouth (Virginia portion), Petersburg-Colonial Heights-Hopewell, Richmond, and Roanoke, and the Northern Virginia portion of

the Washington, DC-MD-VA SMSA, as well as the Charlottesville-Albemarle County area.[1] The Virginia portion of the Johnson City-Kingsport-Bristol, TN-VA SMSA was excluded because the major part of this area is in Tennessee rather than in Virginia.

From the item price indices, category and total relative price indices were computed for each geographic area. Also, indices of change were calculated which describe the year-to-year changes in consumer prices for each of the eight metropolitan areas, that is, the increase, or decrease, in prices for mid-1979 compared with mid-1978, mid-1978 compared with mid-1977, mid-1977 compared with mid-1976, and mid-1976 compared with mid-1975.

---

[1]Lynchburg SMSA = Lynchburg city and Amherst, Appomatox, and Campbell Counties.

Newport News-Hampton SMSA = Hampton, Newport News, Poquoson, and Williamsburg cities and Gloucester, James City, and York Counties.

Norfolk-Virginia Beach-Portsmouth SMSA = Chesapeake, Norfolk, Portsmouth, Suffolk, and Virginia Beach cities; excludes North Carolina portion of this SMSA.

Northern Virginia SMSA = Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties; excludes Maryland and District of Columbia parts of the Washington Metropolitan Area.

Petersburg-Colonial Heights-Hopewell SMSA = Colonial Heights, Hopewell, and Petersburg cities and Dinwiddie and Prince George Counties.

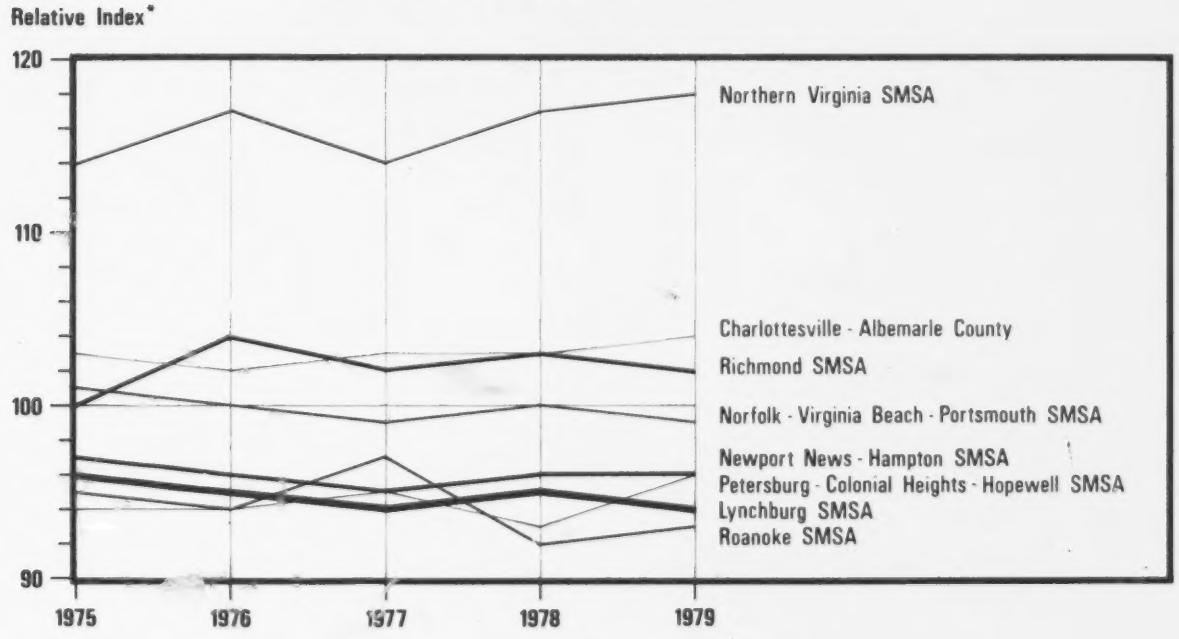
Richmond SMSA = Richmond city and Charles City, Chesterfield, Goochland, Hanover, Henrico, New Kent, and Powhatan Counties.

Roanoke SMSA = Roanoke and Salem cities and Botetourt, Craig, and Roanoke Counties.

II. Relative Price Indices

The Northern Virginia portion of the Washington DC-MD-VA Standard Metropolitan Statistical Area, when compared with the other seven Virginia areas studied, in 1979 continued to have the highest cost-of-living indicator, as the area had in each of the prior four years studied by the Tayloe Murphy Institute. (See Chart 1 and Table 1.) The Northern Virginia figure, 118, which far outreached all others, was followed by the Charlottesville area with 104, and the Richmond SMSA

CHART 1
RELATIVE CONSUMER PRICE INDICES
EIGHT VIRGINIA METROPOLITAN AREAS: 1975 - 1979



*Average for eight areas = 100; 120 = 20% above average; 110 = 10% above average; 90 = 10% below average.

with 102. Five areas had below average indicators: the Roanoke SMSA at 93, the Lynchburg SMSA at 94, the Newport News-Hampton SMSA and the Petersburg-Colonial Heights-Hopewell SMSA at 96, and the Norfolk-Virginia Beach-Portsmouth SMSA at 99.

The relative positions held by each of the eight areas has held fairly steady over the five years studied by Tayloe Murphy Institute. Northern Virginia has consistently had the highest indicator, by a wide margin; Roanoke, Petersburg-Colonial Heights-Hopewell, and Lynchburg usually have experienced the lowest figures. Newport News also has tended to be lower than average; Norfolk-Virginia Beach-Portsmouth has typically been very close to the average, and Richmond and Charlottesville have been slightly above the average.

In each of the five years, a pattern has usually appeared in which

Table 1

TOTAL RELATIVE CONSUMER PRICE INDICES
EIGHT VIRGINIA METROPOLITAN AREAS: 1975-1979

	1975	1976	1977	1978	1979
Charlottesville-Albemarle County.....	103	102	103	103	104
Lynchburg SMSA.....	96	95	94	95	94
Newport News-Hampton SMSA.....	97	96	95	96	96
Norfolk-Virginia Beach-Portsmouth SMSA (Virginia portion).....	101	100	99	100	99
Northern Virginia portion of the Washington DC-MD-VA SMSA.....	114	117	114	117	118
Petersburg-Colonial Heights-Hopewell SMSA	94	94	95	93	96
Richmond SMSA.....	100	104	102	103	102
Roanoke SMSA.....	95	94	97	92	93

the largest areas experience the higher cost of living, while the smaller areas have lower cost of living. This correlation occurs, in general, whether the areas are measured by population, personal income, or retail sales. Northern Virginia, the largest on each of these dimensions, has the highest cost of living; the lower indicators were found in the smaller Standard Metropolitan Statistical Areas: Lynchburg, Petersburg-Colonial Heights-Hopewell, and Roanoke. (See Table 2.)

Table 2

POPULATION, INCOME, AND SALES DATA
EIGHT VIRGINIA METROPOLITAN AREAS

	Population[1]	Total Personal Income[2]	Retail Sales[3]
Charlottesville-Albemarle County	88,400	$ 556,900,000	$ 358,024,000
Lynchburg SMSA	148,000	898,100,000	500,190,000
Newport News-Hampton SMSA	361,300	2,305,100,000	1,147,360,000
Norfolk-Virginia Beach-Portsmouth SMSA	789,500	4,857,900,000	2,375,179,000
Northern Virginia portion of the Washington DC-MD-VA SMSA	1,038,100	10,084,900,000	3,859,547,000
Petersburg-Colonial Heights-Hopewell SMSA	127,600	811,900,000	371,533,000
Richmond SMSA	611,800	4,764,500,000	2,480,352,000
Roanoke SMSA	210,800	1,474,700,000	948,661,000

[1]1978 data, *Estimates of the Population of Virginia Cities & Counties*, Julia H. Martin and Michael A. Spar, Tayloe Murphy Institute, May 1979.

[2]1977 data, *Personal Income Estimates for Virginia Cities & Counties*, John L. Knapp, and David C. Hodge, Tayloe Murphy Institute, May 1979.

[3]1978 data, *Retail Sales in Virginia 1978*, Eleanor G. May, Tayloe Murphy Institute, May 1979.

Table 3

RELATIVE CONSUMER PRICE INDICES
EIGHT VIRGINIA METROPOLITAN AREAS: 1979
(Average for all areas = 100)

Category or Subcategory	Metropolitan Areas							
	Charlottesville	Lynchburg	Newport News-Hampton	Norfolk-Virginia Beach-Portsmouth	Northern Virginia	Petersburg-Colonial Heights-Hopewell	Richmond	Roanoke
Total	104	9[illegible]	96	99	118	96	102	93
I. Food and Beverages	101	98	97	99	108	95	104	98
A. Food	101	98	97	99	109	95	105	98
1. Food At Home	101	102	97	97	105	97	97	103
a. Cereal and Bakery Products	96	109	99	95	106	98	94	103
(1) Cereal and Cereal Products	103	103	95	93	107	101	97	101
(2) Bakery Products	93	111	101	96	106	97	92	104
b. Meats, Poultry, Fish, and Eggs	102	101	97	100	102	98	98	102
(1) Meats	101	102	96	103	102	96	99	100
(a) Beef	98	105	93	104	102	95	100	103
(b) Pork	108	95	101	103	101	98	97	96
(c) Other Meats	99	103	96	101	103	96	101	100
(2) Poultry	102	107	98	89	105	87	92	121
(3) Fish and Seafood	106	98	97	92	98	119	91	99
(4) Eggs	104	93	100	99	109	99	99	99
c. Dairy Products	103	106	98	94	100	94	94	110
d. Fruits and Vegetables	103	100	100	95	103	99	95	105
(1) Fresh Fruits and Vegetables	101	102	99	95	104	98	94	107
(a) Fresh Fruits	94	101	99	94	102	101	94	114
(b) Fresh Vegetables	108	103	98	96	106	95	94	100
(2) Processed Fruits and Vegetables	104	97	102	95	102	99	97	104
(a) Processed Fruits	106	94	96	98	106	97	100	103
(b) Processed Vegetables	102	99	108	92	98	102	94	104
e. Sugar and Sweets	101	96	96	99	107	97	99	105
f. Fats and Oils	103	97	94	96	115	97	101	97
g. Nonalcoholic Beverages	102	98	97	99	115	94	99	98
h. Miscellaneous Prepared Foods	102	103	93	95	111	98	98	99
2. Food Away From Home	101	88	95	101	117	89	123	86
B. Alcoholic Beverages	100	100	100	100	100	100	100	100
II. Housing	107	90	92	98	132	94	101	87
A. Shelter	110	89	88	96	142	91	99	85
1. Rent	119	91	78	88	152	87	105	80
2. Homeownership	108	89	90	98	140	92	97	86
B. Fuels and Other Utilities	105	87	103	104	107	102	103	89
1. Fuels	97	95	105	101	107	102	102	91
2. Electricity	109	82	105	107	108	104	105	82
3. Natural Gas	84	99	104	106	85	118	105	98
4. Other Utilities and Public Services	116	80	100	101	123	90	100	90
C. Household Furnishings and Operation	96	95	99	98	106	99	108	98
1. House Furnishings	93	96	99	100	107	99	110	97
a. Textiles	84	86	112	110	114	88	115	92
b. Furniture	88	92	94	101	112	94	123	96
c. Appliances	95	96	99	100	102	104	98	105
d. Television and Sound Equipment	98	99	99	95	105	107	102	94
e. Other Household Equipment	97	104	100	96	101	99	105	96
2. Housekeeping Supplies	104	93	100	93	105	101	103	102

Table 3 (Continued)

RELATIVE CONSUMER PRICE INDICES
EIGHT VIRGINIA METROPOLITAN AREAS: 1979
(Average for all areas = 100)

Category or Subcategory	Metropolitan Areas							
	Charlottesville	Lynchburg	Newport News-Hampton	Norfolk-Virginia Beach-Portsmouth	Northern Virginia	Petersburg-Colonial Heights-Hopewell	Richmond	Roanoke
III. Apparel and Upkeep	103	99	100	99	104	94	107	93
A. Apparel Commodities	105	101	99	97	105	94	108	93
1. Mens Apparel	98	99	103	99	103	93	114	91
2. Boys Apparel	96	101	101	96	107	101	104	94
3. Womens Apparel	115	106	96	93	104	93	105	90
4. Girls Apparel	97	99	102	95	110	94	109	95
5. Footwear	105	93	96	101	106	94	104	101
B. Apparel Services	90	88	106	114	101	100	104	98
IV. Transportation	100	99	101	98	101	101	100	101
A. Auto Purchase	102	100	100	98	97	101	99	103
1. New Car	100	101	99	99	102	101	100	99
2. Used Car	105	99	101	96	91	102	97	109
B. Gasoline	99	100	101	100	101	101	98	100
C. Maintenance and Repair	89	94	104	100	115	97	101	100
D. Other Private Transportation	101	94	102	96	105	101	103	98
1. Commodities	96	107	98	99	105	94	95	105
2. Services	102	91	103	95	105	103	105	96
V. Other Goods and Services	99	93	100	103	110	96	105	93
A. Medical Care	96	89	101	106	114	97	104	94
1. Commodities	94	93	103	99	103	107	104	97
a. Prescription Drugs	88	90	102	96	101	110	112	101
b. Over-the-Counter Items	99	96	104	103	104	104	95	93
2. Services	96	88	100	107	116	95	104	94
a. Professional Services	95	88	106	101	116	98	106	92
(1) Physicians Services	95	85	104	96	127	96	109	88
(2) Dental Services	92	89	110	102	106	99	106	96
(3) Eye Exam and Eyeglasses	103	92	101	111	103	99	95	96
b. Other Services	98	88	95	113	116	92	103	95
B. Entertainment	100	98	102	99	105	96	106	95
1. Commodities	102	98	104	100	99	97	111	89
2. Services	96	97	99	98	114	94	99	102
C. Personal Care	107	94	97	103	111	94	105	88
1. Toilet Goods and Personal Care Appliances	107	96	94	98	104	99	101	99
2. Personal Care Services	106	93	99	106	117	90	109	80
D. Personal and Educational Expenses	95	91	93	109	99	111	108	92

The exception to this pattern is the one non-SMSA included in this survey, the Charlottesville and Albemarle County area, where each year higher than average costs have been observed, even though the area has the lowest population, total personal income, and retail sales among the eight areas studied.

The population-correlated cost-of-living indicators perhaps can be explained by considering two factors which usually vary according to the size of the location. The first factor is the higher relative real estate costs common to the more densely populated areas, and the lower relative real estate costs in the less populated areas. As will be seen when the categories of expenses are considered, the cost of shelter in Northern Virginia is 42% higher than the average for the eight areas, Lynchburg is 11% lower, and Roanoke is 15% lower. (See Table 3.) And real estate costs affect not only housing but also many other items included in the market basket because real estate costs are a necessary component of the cost structure of virtually all goods and services. Thus the real estate cost differential affects all items in the market basket, increasing costs relatively in the more densely populated areas.

Conversely, the factor of competition can affect the prices of many items. Larger areas have more outlets in which consumers can obtain the goods and services making up the market basket. A greater number of outlets typically produces a more price competitive situation resulting in some tendency for prices to be lower. However, competition appears to have less effect and real estate costs appear to have greater effect on the prices of goods and services. Only Charlottesville-Albemarle does not follow the pattern which could be expected from these

two factors.

The relative price indices shown in Table 1 were composed of five categories of costs: Food and Beverages, Housing, Apparel and Upkeep, Transportation, and Other Goods and Services. Each of the five categories were comprised of a varying number of subcategories, which again contained a varying number of items. A sample of prices for each individual item was collected for each of the eight metropolitan areas. (A listing of each item priced with category and subcategory combinations indicated can be found in Table 14 in the Appendix.) The item prices were combined into subcategory price indicators, the subcategories into category price indicators, and the category into the total indices by using weights adapted from the United States Bureau of Labor Statistics weighting procedures developed for a typical urban worker household. A discussion of this weighting procedure, as well as a description of the weights used, is contained in the last section of this report.

The indices for the five categories and for the subcategories for each of the eight metropolitan areas for 1979 are shown in Table 3. Indices for earlier years are included in Tables 15, 16, 17, and 18 in the Appendix. The data in the Appendix reflect some revisions on those published in prior years, resulting from improvements in methods instituted in 1979, which it was possible to incorporate into the earlier data. Most of these revisions, however, had virtually no effect on the interrelations either among the indices for the eight metropolitan areas or among the indices for the five categories.

As would be expected, wider variations appeared among the category indicators than among the total indicators, and even wider ones in some subcategories. The lowest relative indices were observed for

Rent in Newport News at 78, 22% below the average for the eight areas, Rent in Roanoke at 80, Personal Care Services in Roanoke at 80, Other Utilities and Public Services in Lynchburg at 80, and Electricity in Lynchburg and Roanoke at 82. Rent had the widest range, from the 78 in Newport News and 80 in Roanoke to 152 in Northern Virginia. In other words, typical rental charge for a two bedroom apartment (the specified item priced) in Northern Virginia was almost twice as high as in Roanoke and Petersburg and 52% above the average for the eight areas combined.

The subcategory, which was second to Rent in range of price and with high prices, was Homeownership at 40% above the average in Northern Virginia, resulting in a Shelter index of 142 and Housing index of 132 for this area. Northern Virginia also is credited with the only other index over 125, 127 for Physicians Services. The overall high consumer prices in Northern Virginia are further evidenced by only 7 out of 80 categories and subcategories in which Northern Virginia's position was below that of the average for the eight areas. The other SMSA's generally had much more mixed prices in their market baskets, with some highs and some lows intermingled.

The Food and Beverages category ranged from 108 in Northern Virginia to 95 in Petersburg. This category showed a big variation in a major subcategory, Food Away From Home, from 123 in Richmond and 117 in Northern Virginia to 88 in Lynchburg and 89 in Petersburg.

Apparel and Upkeep cost variations were similar to those for Food and Beverages. The lowest figures for Apparel and Upkeep were 93 in Roanoke and 94 in Petersburg, the highest 107 in Richmond.

Transportation varied only narrowly among the eight areas studied,

from 98 for Norfolk to 101 for Newport News, Northern Virginia, Petersburg, and Roanoke.

Other Goods and Services are comprised of Medical Care, Entertainment, and Personal Care. Medical Care costs varied from 14% above average in Northern Virginia to 11% below average in Lynchburg. The high figure for Entertainment was 106 in Richmond, the low 95 in Roanoke. Personal Care costs were lowest in Roanoke at 88, highest in Northern Virginia at 111.

III. Annual Price Level Changes

All eight Virginia areas studied showed increases in the cost of living from mid-1978 to 1979 of at least 12%. (See Table 4.) The average for the eight areas combined was 14%; the comparable figure across the total United States was 11.5%. (See Table 5.) The slightly higher increases for Virginia metropolitan areas, which was observed also in 1977 and 1978 (+8% and +9% for Virginia compared with +6.7% and +7.8% for the total United States), may possibly be

Table 4

CHANGES IN CONSUMER PRICE LEVELS
EIGHT VIRGINIA METROPOLITAN AREAS

	1979/1978	1978/1977	1977/1976	1976/1975
Charlottesville-Albemarle County....	+14%	+8%	+9%	+3%
Lynchburg SMSA.....	+12	+12	+7	+3
Newport News-Hampton SMSA.....	+14	+10	+9	+4
Norfolk-Virginia Beach-Portsmouth SMSA.....	+12	+10	+7	+3
Northern Virginia portion of the Washington DC-MD-VA SMSA.....	+15	+9	+5	+7
Petersburg-Colonial Heights-Hopewell SMSA.....	+18	+8	+8	+6
Richmond SMSA.....	+13	+11	+5	+7
Roanoke SMSA.....	+15	+6	+10	+5
Average for Eight Areas.....	+14	+9	+8	+5

Table 5

CHANGES IN CONSUMER PRICE LEVELS: UNITED STATES

	1979/1978	Index: 1975 = 100				
		1975	1976	1977	1978	1979
Total	+11.5%	100.0	105.5	112.6	121.3	135.3
Food and Beverages	+9.8	100.0	102.2	109.3	117.7	129.2
Housing	+12.4	100.0	106.3	114.1	122.2	137.4
Apparel and Upkeep	+4.1	100.0	104.0	108.8	112.0	116.6
Transportation	+16.2	100.0	109.8	117.0	122.7	142.5
Other Goods and Services	+7.9	100.0	105.6	111.3	128.2	138.3

Source: United States Bureau of Labor Statistics.

explained by the exclusion of rural areas from the Virginia study. Or it may be that the cost of living is moving up faster in Virginia than it is typically on average in the rest of the United States.

The fluctuations in the year-to-year changes for each of the eight Virginia metropolitan areas are larger in general for the eight Virginia metropolitan areas than for the total United States. This wider variation is as would be expected when studying smaller areas in which local factors (work stoppages, shortages of raw materials, unusual weather) will affect the area economy to a greater degree than the national economy will be affected.

Almost all Virginia areas studied showed larger increases in 1979 than in 1978, 1977, or 1976, corresponding with the total United States changes of +11.5%, +7.8%, +6.7%, and +5.5%.

In the Charlottesville area, prices increased 14 percentage points in 1979, significantly larger than the increases observed in earlier years. The biggest category increase in 1979 in Charlottesville was for

Table 6

CHANGES IN CONSUMER PRICE LEVELS: CHARLOTTESVILLE-ALBEMARLE COUNTY

	1979/1978	Index: 1975 = 100				
		1975	1976	1977	1978	1979
Total	+14%	100	103	112	121	138
Food and Beverages	+9	100	100	106	113	124
Housing	+14	100	102	115	126	143
Apparel and Upkeep	+14	100	107	123	128	146
Transportation	+19	100	103	106	114	136
Other Goods and Services	+10	100	109	115	124	136

Transportation, +19%, the smallest increase was for Food and Beverages, +9%. (See Table 6.) Housing and Apparel and Upkeep increased 14%, Other Goods and Services were up 10%. Charlottesville's consumer price level relative to the other areas continued to hold above average, at 104, for 1979.

Between 1978 and 1979 the Lynchburg Standard Metropolitan Statistical Area experienced a 12% increase in consumer prices. Lynchburg's overall increase resulted from a 16% increase for Transportation, 12% for Food and Beverages, and 10% for Housing, Apparel and Upkeep, and Other Goods and Services. (See Table 7.) Lynchburg's prices, however, were 6% below the average for the eight areas studied.

Newport News-Hampton's total change in consumer prices between 1978 and 1979 was +14%. Transportation led the increases here, as in most of the other areas, with an 18% increase. (See Table 8.) Housing followed with +16%, Apparel and Upkeep at +11%, Other Goods and Services at +10%, and Food and Beverages at +9%. Newport News prices relative to the other areas were 4% below the average.

Table 7

CHANGES IN CONSUMER PRICE LEVELS: LYNCHBURG*

	1979/1978	Index: 1975 = 100				
		1975	1976	1977	1978	1979
Total	+12%	100	103	111	123	137
Food and Beverages	+12	100	99	105	112	138
Housing	+10	100	101	109	125	138
Apparel and Upkeep	+10	100	120	128	139	153
Transportation	+16	100	103	109	122	142
Other Goods and Services	+10	100	103	113	127	140

*Standard Metropolitan Statistical Area

Table 8

CHANGES IN CONSUMER PRICE LEVELS: NEWPORT NEWS-HAMPTON*

	1979/1978	Index: 1975 = 100				
		1975	1976	1977	1978	1979
Total	+14%	100	104	113	124	142
Food and Beverages	+9	100	103	113	119	129
Housing	+16	100	106	114	128	149
Apparel and Upkeep	+11	100	105	113	127	141
Transportation	+18	100	105	107	118	139
Other Goods and Services	+10	100	102	115	124	137

*Standard Metropolitan Statistical Area

For the Norfolk-Virginia Beach-Portsmouth Standard Metropolitan Statistical Area, the change in consumer prices from 1978 to 1979 was +12%. The Transportation and Other Goods and Services categories increased more than did the total for Norfolk, with a +16% and +15% respectively. (See Table 9.) Apparel and Upkeep, with +7%, and Food and Beverages, with +8%, were both lower than total for the area. Housing, with +12%, was the same as the area average. The Norfolk area's consumer price level relative to the other areas was marginally below average, 99.

The Northern Virginia part of the Washington DC-MD-VA Standard Metropolitan Statistical Area experienced a 15% increase in consumer prices in 1979, after a 9% increase in 1978, a 5% increase in 1977, and a 6% increase in 1976. (See Table 10.) The 1979 increase was the result of +19% in the Transportation category, +17% in Housing, +12% for Other Goods and Services, +9% for Food and Beverages, and

Table 9

CHANGES IN CONSUMER PRICE LEVELS: NORFOLK-VIRGINIA BEACH-PORTSMOUTH*

	1979/1978	Index: 1975 = 100				
		1975	1976	1977	1978	1979
Total	+12%	100	103	110	121	136
Food and Beverages	+8	100	102	108	120	130
Housing	+12	100	101	108	121	136
Apparel and Upkeep	+7	100	109	128	134	143
Transportation	+16	100	107	110	117	136
Other Goods and Services	+15	100	108	114	121	139

*Standard Metropolitan Statistical Area

Table 10

CHANGES IN CONSUMER PRICE LEVELS: NORTHERN VIRGINIA*

	1979/1978	Index: 1975 = 100				
		1975	1976	1977	1978	1979
Total	+15%	100	106	112	122	140
Food and Beverages	+9	100	101	105	119	130
Housing	+17	100	105	113	124	145
Apparel and Upkeep	+5	100	112	119	127	133
Transportation	+19	100	112	113	121	142
Other Goods and Services	+12	100	113	118	122	127

*Standard Metropolitan Statistical Area

Table 11

CHANGES IN CONSUMER PRICE LEVELS: PETERSBURG-COLONIAL HEIGHTS-HOPEWELL*

	1979/1978	Index: 1975 = 100				
		1975	1976	1977	1978	1979
Total	+18%	100	106	114	124	146
Food and Beverages	+7	100	100	109	122	131
Housing	+21	100	106	117	129	157
Apparel and Upkeep	+9	100	114	127	140	153
Transportation	+24	100	111	116	117	145
Other Goods and Services	+15	100	110	116	119	137

*Standard Metropolitan Statistical Area

+5% for Apparel and Upkeep.

The increase in costs for Transportation between 1978 and 1979, +24%, in the Petersburg-Colonial Heights-Hopewell Standard Metropolitan Statistical Area was the highest category cost increase observed in any area studied by the Tayloe Murphy Institute. (See Table 11.) The total change for Petersburg, 18%, was also the highest of any of the eight Virginia areas, significantly higher than that for the total United States, +11.5%. Only in the Food and Beverage category did Petersburg do better than for the total United States, +7% compared with +9.8%.

The increase in consumer prices for 1978 to 1979 for the Richmond Standard Metropolitan Statistical Area was +13%. The increase from 1978 to 1979 for Richmond was caused by +14% for the Housing, the Transportation, and the Other Goods and Services categories, a +11% for the Apparel and Upkeep category, and a +8% for Food and Beverages. (See Table 12.)

Table 12

CHANGES IN CONSUMER PRICE LEVELS: RICHMOND*

	1979/1978	Index: 1975 = 100				
		1975	1976	1977	1978	1979
Total	+13%	100	107	113	125	141
Food and Beverages	+8	100	100	107	116	125
Housing	+14	100	105	111	125	142
Apparel and Upkeep	+11	100	115	118	140	155
Transportation	+14	100	116	116	126	144
Other Goods and Services	+14	100	116	123	129	147

*Standard Metropolitan Statistical Area

In 1979, the Roanoke Standard Metropolitan Statistical Area experienced an increase in consumer prices of 15%. Like all other areas, the total index was led by Transportation at +20%, followed by Housing at +17%, Food and Beverages at +12%, Apparel and Upkeep at +8%, and Other Goods and Services at +6%. (See Table 13.)

The changes in the consumer price indicators for each of the eight Virginia metropolitan areas studied, for categories and subcategories, for 1979 over 1978 are shown in Table 19, for 1978 over 1977 are shown in Table 20, for 1977 over 1976 in Table 21, and for 1976 over 1975 in Table 22 in the Appendix. The largest increase observed in 1979 for individual items were Fuels (Housing), +56% to +75%, Gasoline, +39% to +44%, and Personal and Educational Expenses (legal services), +19% to 50%. The only items for which decreases in average costs seemed to be common were Poultry, Eggs, Fresh Vegetables, Pork, and Television and Sound Equipment.

Table 13

CHANGES IN CONSUMER PRICE LEVELS: ROANOKE*

	1979/1978	Index: 1975 = 100				
		1975	1976	1977	1978	1979
Total	+15%	100	105	116	123	141
Food and Beverages	+12	100	102	111	119	134
Housing	+17	100	105	117	122	143
Apparel and Upkeep	+8	100	100	113	122	132
Transportation	+20	100	106	116	122	147
Other Goods and Services	+6	100	109	120	128	136

*Standard Metropolitan Statistical Area

IV. Techniques Used in the Development of Consumer Price Indices for Virginia

In January, 1978, the United States Bureau of Labor Statistics (USBLS) introduced a complete revision of the United States consumer price index, based on research beginning in 1972. Some of these changes were adopted for the Virginia study, some were adapted, others had been included in prior years in the procedures followed to produce the Virginia consumer price data. [For a more detailed explanation of the USBLS Consumer Price Index, see *The Consumer Price Index: Concepts and Content Over the Years*, Report 517 (Bureau of Labor Statistics, 1977)].

The USBLS data are summarized into "market baskets" for various types of households (upper, middle, lower income; urban, rural; retired; et cetera). In these market basket data, the specific items purchased as well as each item's share of the household's dollar were available.

The specific items to be priced were chosen, from all the items indicated by the consumers, to be the most commonly purchased items and/or to represent a group of commonly purchased items. The weight attached to each specific item represented the importance of the specific item, or of the group of items, in the composite consumer market basket.

The item specification description was one of the major procedural changes instituted by USBLS in 1978. Prior to 1978, detailed specifications were based on the immediately prior USBLS restudy, that is the 1962 survey was used for the data for the 1970's until January, 1978.

Beginning with the 1978 data, however, rather than using the detailed specifications, the USBLS adopted the practice of selecting the outlets by name and location in which the merchandise was to be priced. In the specified outlet, the item of merchandise to be priced was designated to be the one which, within very broad descriptions, was the most common to the outlet. This latter procedure, that of outlet selection rather than detailed item specification, is the one which has been used in the Virginia study since its inception in 1975.

The USBLS revises the outlet sample by 20% each year. In the past, this procedure has not been followed in the Virginia study, outlets have been substituted only in the event of firms going out of business; the 20% substitution process, however, was instituted for the 1979 Virginia study.

The Virginia data, for the most part, are for the last three days in July and the first ten days in August. Four items, however, Rent and House Sales Price (from which Mortgage Payment, Property Insurance, and Property Tax are imputed), Auto Purchase, and Used Auto are based on data for the first six months of the year in the Virginia survey.

A. Item Selection

The items priced in the 1979 study are the same as those priced in the 1978 study. Some items and subcategories, on which there may be some confusion, are discussed on the following pages.

The subcategory, Shelter, needs further notation here to explain its handling in the Virginia relative price indices. The house cost components of Shelter could have been handled in one of two different ways. The first, the one used by the Tayloe Murphy Institute, is to

gather Mortgage Payment, Property Insurance, and Property Taxes applicable to a typical house which was purchased at the time of the survey. The price for the typical house is determined by gathering data on house sale transactions.

The second approach is to develop a "rental equivalency" to serve as a surrogate for the costs incurred when the consumer owns the house. The rental equivalency method, which uses data on rents charged for houses in the area, presumably would result in more realistic consumer price level data than that obtained by gathering mortgage, insurance, and tax data. But the rental equivalency method requires a sizable house-rental market to provide a reliable data base. The geographic areas included in the Virginia study, however, are too small to have a sufficient number of rental houses to develop accurate housing costs based on rental equivalency. Therefore, mortgage, insurance, and tax costs experienced by recent home purchasers were used in the Virginia study, even though this method gives undue weight to current purchase prices and to current mortgage terms and insufficient weight to the older purchase prices and mortgage terms which represent a sizable portion of the market.

Also the subcategory Food Away From Home was added in 1976. Alcoholic Beverages were added in the 1977 study, with the 1975 and 1976 figures being obtained from the Virginia Department of Alcoholic Beverage Control.[1] Legal Services were added in 1978.

---

[1]Department of Alcoholic Beverage Control, Commonwealth of Virginia, *Liquor and Wine Price Lists Nos. 219, 227, 231*, Richmond.

B. Relative Importance Weights

The items priced by the USBLS in the new Consumer Price Index are listed in Table 14 (see pages 34 to 45) along with each item's relative importance weights as established by USBLS. Also listed are the weights used for the Virginia 1979 study for the 200 items priced in Virginia.

Virginia index weights were derived as follows:

1. All items used in the Virginia study which also were in the USBLS Consumer Price Index list were first assigned the December 1978 USBLS Consumer Price Index weight. Weights for items priced in Virginia but not priced by USBLS were obtained by dividing into equal proportions the USBLS weight of the corresponding item. For example, the USBLS weight for Other Fresh Vegetables, 0.205, was distributed equally among the five fresh vegetables priced in the Virginia survey.
2. After each item in a subcategory had received a weight, the weights were increased proportionately, to distribute the weights of those items in the subcategory which were not priced in the Virginia study. This occurred for nearly all the Virginia subcategories because more items are priced by the USBLS than are priced in the Virginia survey and also because USBLS allows a weight for unpriced items in each subcategory.
3. The weights of all unpriced items and the items listed which were not priced for Virginia are distributed within the particular subcategory by the procedure described above. The same procedure is followed for subcategories not priced for Virginia. For example, the weight for Housekeeping Services,

a subcategory not priced for Virginia, is prorated throughout the Housing category.

4. A few of the Consumer Price Index item weights have been combined with the CPI weight for an item in another subcategory, to create the Virginia weight. For example, in the Virginia survey, the CPI weight for Tenants Insurance, which was not priced in Virginia, was combined with the CPI weight for Property Insurance.

C. Item Definitions

Items with special definitions or specifications are described below, as well as those items for which particular pricing procedures were used. A complete set of the item specifications used in the Virginia study is available from the Tayloe Murphy Institute.

Legal Fees - This subcategory was introduced in 1978 to develop better consistency with the USBLS Consumer Price Index. The fees collected were for a will, a divorce, an adoption, and a house closing with the following specifications:

Will: The customary fee charged to prepare a simple will involving the appointment of a guardian for two children and to allocate real and personal property valued at $70,000 between spouse and children. There are no tax complications and no establishment of trusts.

Divorce: The customary fee charged to prepare a no-fault, uncontested divorce. The couple has been separated for one year, no children are involved, and the personal and real property

has already been divided, but the couple has not formalized their separation into a contract. No alimony is involved.

Adoption: The customary fee charged a young couple, college educated, upper income level, to handle the legal aspects of adopting a child through an agency.

House Closing: The customary fee charged in a routine house closing (no complications or taxes) with a bank supplying the loan. The attorney does a title search for a 40-year period and handles the actual closing. A loan amount of $50,000 was assumed on a house costing $72,000.

House Sale Price - House Sale Price was not used directly in the computation of the area indices; rather, it was used in deriving Mortgage Payment, Property Insurance, and Property Taxes components of Shelter costs. House Sale Price data were collected from realtors' Multiple Listing Service records in each area. Sale prices of single-family detached houses for the first six months of the year in each of the eight areas were used with the exception of the Northern Virginia area. House sale prices for the months April through June of 1979 were not available for Northern Virginia. Using data for the first three months of 1979 along with appropriate 1978 data, the average house sale prices for January through June of 1979 was estimated.

In each area, the average house price was developed by using the middle 80% of sale prices, excluding both the top 10% and

the bottom 10%, to remove the effect of extremely large and abnormally small value transactions.

Mortgage Payment - Using the derived average house sale price, typical payments of principal plus interest for a conventional mortgage were calculated from data supplied by savings and loan and banking institutions in each area. The Consumer Price Index weights for Home Purchase and Mortgage Interest Cost were combined and assigned to Mortgage Payment for the Virginia survey.

Property Insurance - The cost for Property Insurance was for a standard comprehensive policy on the following specified house:

> Urban house (single-family, brick, within city limits, within 1,000 feet of a fire hydrant). Coverage for 100% of house sale price. Unscheduled personal property coverage of 50% of the amount of the insurance on the house. Additional living expenses equal to 20% of the house coverage. Personal liability coverage of $25,000 and $250 for physical damage to others' property, regardless of liability. Damage ($50 deductible) includes that caused by fire and lightning.

Property Taxes - The tax rates for each metropolitan area were developed by population weighting the effective tax rates for each jurisdiction within the metropolitan area to develop an area-wide effective tax rate. The area-wide effective tax rate was applied to the area average house sale price.

Natural Gas - The monthly cost of 5,000 cubic feet, including population-weighted local utility taxes, were developed for each area.

Electricity - The cost for 1,000 kilowatt hours residential use

in each area was obtained, including all adjustments and rate surcharges and population-weighted local utility taxes.

Telephone - The rates used were for a single-party unlimited line within the central base rate area, plus population-weighted local utility taxes.

Water and Sewer - The cost collected was the monthly charge for residential use of 1,213 cubic feet of water, including the population-weighted local utility taxes, plus the charge for sewer.

Rent - The average rental price for all two bedroom apartments advertised in the principal newspapers for each area, for the first six months of 1979, was used.

Auto Purchase - New car prices were obtained from Ford, Chevrolet, and Datsun dealers in each area for full-size, mid-size, and compact cars. Each car dealer reported the average retail selling price for new cars in each size category, during the first six months of 1979. The price used for each size was the unweighted average of the reported prices.

Used Car - The average retail prices for all used cars sold from January through June 1979 were gathered from selected dealers.

Auto Insurance - Data were collected on premiums charged for each area for insurance for a 1979 Chevrolet Chevelle. The specifications included no male driver under 25 years old and car not used for business (except to drive to and from work). The driver carried liability limits of $25,000 per person for bodily injury, $50,000 per accident for bodily injury, and $10,000 per accident for property damage liability. Also included were $1,000 in medical payments coverage, comprehensive coverage with no deductible,

and $100 deductible collision coverage. The data were supplied by an insurance company doing business in all the survey areas.

Health Insurance - Health insurance costs were calculated in a method similar to that used in the USBLS Consumer Price Index. For each area costs were gathered and totalled for: semi-private hospital room, operating room, X-ray series, doctor's office visit, tonsillectomy, herniorrhaphy, obstetrical fees, prescription drugs, and health insurance overhead.

Food Category - The Virginia Department of Labor and Industry (VDLI) Market Basket prices were used for the three areas covered by VDLI (Richmond, Norfolk-Virginia Beach-Portsmouth, and Northern Virginia).[1] The items used by VDLI were priced by Tayloe Murphy Institute researchers in the other five metropolitan areas. To provide comparability, the Tayloe Murphy Institute food surveys were conducted on the same days of the month as the VDLI Market Basket surveys were.

---

[1]Virginia Department of Labor and Industry. *The Monthly Market Basket and Retail Food Prices for Norfolk-Virginia Beach-Portsmouth, Richmond and Northern Virginia SMSA.* Richmond.

Appendix

United States Consumer Price Index Weights
and Derived Virginia Survey Weights

Relative Consumer Price Indices and
Percentage Changes in Price Levels:
1975, 1976, 1977, and 1978

Table 14

UNITED STATES CONSUMER PRICE INDEX WEIGHTS
AND DERIVED VIRGINIA SURVEY WEIGHTS

	United States Consumer Price Index Weights	Virginia Survey Weights
Total	100.000	100.000
I. Food and Beverages	19.242	19.242
A. Food At Home	12.617	12.617
1. Cereals and Bakery Products	1.543	1.543
a. Cereal	0.166	0.166
(1) Corn Flakes		0.083
(2) Rolled Oats		0.083
b. Rice	0.121	0.121
c. Flour	0.106	0.106
d. Bakery Products	1.150	1.150
(1) White Bread[1]	0.330	0.564
(2) Bread, other than White[1]	0.116	
(3) Fresh Biscuits, Rolls, Muffins[1]	0.118	
(4) Sweet Rolls, Coffee Cake, Doughnuts[2]	0.123	
(5) Crackers, Stuffing, Bread Crumbs, Cracker Meal[2]	0.079	
(a) Crackers[2]		0.101
(b) Cracker Meal[2]		0.101
(6) Cookies[3]	0.146	0.384
(7) Fresh Pie, Tart, Turnover, Frozen Bakery Products[3]	0.104	
(8) Fresh Cake and Cupcakes[3]	0.134	
2. Meats, Poultry, Fish, and Eggs	4.364	4.364
a. Meats	3.258	3.258
(1) Beef	1.689	1.689
(a) Hamburger	0.466	0.520
(b) Chuck Roast	0.201	0.225
(c) Rib Roast	0.097	0.303
(d) Round Roast	0.175	
(e) Round Steak[4]	0.105	0.641
(f) Sirloin Steak[4]	0.117	
(g) Steak, other than Round and Sirloin[4]	0.353	
(h) Other Beef	0.175	
(2) Pork	1.020	1.020
(a) Bacon	0.180	0.224
(b) Pork Chops	0.217	0.270
(c) Whole Ham	0.183	0.228
(d) Canned Ham	0.095	0.118
(e) Pork Sausage	0.144	0.180
(f) Other Pork	0.201	0.000

Table 14 (Continued)

UNITED STATES CONSUMER PRICE INDEX WEIGHTS
AND DERIVED VIRGINIA SURVEY WEIGHTS

	United States Consumer Price Index Weights	Virginia Survey Weights
(3) Other Meats	0.549	0.549
(a) Frankfurters	0.130	0.290
(b) Bologna, Liverwurst, Salami	0.116	0.259
(c) Other Lunchmeats	0.191	0.000
(d) Lamb and Organ Meats	0.109	0.000
(e) Unpriced Items	0.003	0.000
b. Poultry	0.448	0.448
(1) Fresh Whole Chicken	0.177	0.448
(2) Fresh or Frozen Chicken Parts	0.144	
(3) Other Poultry	0.127	
c. Fish and Seafood	0.410	0.410
(1) Canned Fish and Seafood	0.151	0.151
(a) Canned Tuna		0.050
(b) Canned Salmon		0.051
(c Canned Sardines		0.050
(2) Fresh or Frozen Fish	0.259	0.259
(a) Perch Fillets, Frozen		0.130
(b) Haddock Fillets, Frozen		0.129
d. Eggs	0.248	0.248
3. Dairy Products	1.684	1.684
a. Fresh Milk and Cream	0.985	0.985
(1) Fresh Whole Milk	0.717	0.985
(2) Fresh Milk, other than Whole Milk and Cream	0.268	
b. Other Dairy Products	0.699	0.699
(1) Butter	0.086	0.086
(2) Cheese	0.352	0.352
(3) Ice Cream	0.166	0.166
(4) Evaporated Milk	0.095	0.095
4. Fruits and Vegetables	1.756	1.756
a. Fresh Fruits	0.429	0.429
(1) Apples	0.090	0.162
(2) Bananas	0.053	0.095
(3) Oranges	0.097	0.172
(4) Other Fresh Fruits	0.189	0.000
b. Fresh Vegetables	0.461	0.461
(1) White Potatoes	0.097	0.049
(2) Sweet Potatoes		0.048
(3) Lettuce	0.099	0.099
(4) Tomatoes	0.060	0.060
(5) Other Fresh Vegetables	0.205	0.205
(a) Green Beans		0.041
(b) Cabbage		0.041
(c) Carrots		0.041
(d) Celery		0.041
(e) Onions		0.041

Table 14 (Continued)

UNITED STATES CONSUMER PRICE INDEX WEIGHTS
AND DERIVED VIRGINIA SURVEY WEIGHTS

	United States Consumer Price Index Weights	Virginia Survey Weights
c. Processed Fruits	0.435	0.435
(1) Frozen Fruit and Fruit Juices	0.125	0.195
(a) Frozen Orange Juice		0.098
(b) Frozen Lemonade		0.097
(2) Fruit Juices, other than Frozen	0.156	0.000
(3) Canned and Dried Fruits	0.154	0.240
(a) Canned Peaches		0.120
(b) Canned Fruit Cocktail		0.120
d. Processed Vegetables	0.431	0.431
(1) Frozen Vegetables	0.110	0.110
(a) Frozen Peas		0.027
(b) Frozen Green Beans		0.028
(c) Frozen Broccoli		0.028
(d) Frozen Fried Potatoes		0.027
(2) Canned Cut Corn	0.109	0.109
(3) Other Canned and Dried Vegetables	0.212	0.212
(a) Canned Tomatoes		0.053
(b) Canned Peas		0.053
(c) Canned Sliced Beets		0.053
(d) Dried Navy Beans		0.053
5. Sugar and Other Sweets	0.440	0.440
a. Sugar and Artificial Sweeteners	0.118	0.118
b. M and M Candy	0.216	0.216
c. Grape Jelly	0.106	0.106
6. Fats and Oils	0.366	0.366
a. Margarine	0.108	0.108
b. Lard, Shortening, Oil, Mayonnaise, Salad Dressing	0.187	0.187
(1) Cooking Oil		0.063
(2) Shortening		0.062
(3) Salad Dressing		0.062
c. Peanut Butter	0.071	0.071
7. Nonalcoholic Beverages	1.419	1.419
a. Cola Drinks[5]	0.520	0.811
b. Dietary Carbonated Drinks[5]	0.291	
c. Ground Coffee	0.175	0.175
d. Instant Coffee	0.174	0.174
e. Tea Bags	0.259	0.259
8. Miscellaneous Prepared Foods	1.045	1.045
a. Tomato Soup	0.104	0.240
b. Baby Food	0.161	0.374
c. Snacks	0.186	0.431
(1) Potato Chips		0.144
(2) Corn Chips		0.144
(3) Popcorn		0.143

Table 14 (Continued)

UNITED STATES CONSUMER PRICE INDEX WEIGHTS
AND DERIVED VIRGINIA SURVEY WEIGHTS

	United States Consumer Price Index Weights	Virginia Survey Weights
d. Seasonings, Spices, Pickles, Relishes	0.108	0.000
e. Other Condiments	0.165	0.000
f. Frozen Prepared Foods	0.165	0.000
g. Other Canned, Packaged Prepared Foods	0.156	0.000
B. Food Away From Home	5.545	5.545
1. Lunch	1.787	2.612
2. Dinner	2.007	2.933
3. Breakfast and Brunch	1.045	0.000
4. Unpriced Items	0.706	0.000
C. Alcoholic Beverages	1.080	1.080
1. Whiskey and Wine	0.327	1.080
a. Whiskey	0.192	0.000
b. Wine	0.135	0.000
2. Beer and Ale	0.387	0.000
3. Other Alcoholic Beverages	0.114	0.000
4. Alcoholic Beverages Away From Home	0.200	0.000
5. Unpriced Items	0.052	0.000
II. Housing	44.258	45.583
A. Shelter	29.827	32.253
1. Rent of Dwelling[6]	5.535	6.703
2. Other Rental Costs	0.733	
a. Lodging While Out of Town[6]	0.466	
b. Tenants Insurance[7]	0.071	
c. Unpriced Items[6]	0.196	
3. Homeownership	23.557	25.550
a. Mortgage Payment	17.438	18.856
(1) Home Purchase	10.166	
(2) Mortgage Interest Cost	7.272	
b. Property Insurance[7]	0.570	0.693
c. Property Taxes	1.844	1.994
d. Maintenance and Repair Services	2.846	1.301
(1) Repainting	1.203	1.301
(2) Capital Improvement Services[8]	1.643	

Table 14 (Continued)

UNITED STATES CONSUMER PRICE INDEX WEIGHTS
AND DERIVED VIRGINIA SURVEY WEIGHTS

	United States Consumer Price Index Weights	Virginia Survey Weights
e. Maintenance and Repair Commodities...	0.859	0.388
(1) Capital Improvement Commodities[8].	0.501	
(2) Exterior Paint.....	0.140	0.388
(3) Lumber, Paneling, Awning, Glass, Black Top, Masonry Materials...	0.083	
(4) Landscaping Items, Hard Surface Floor Cover, Miscellaneous Supplies.....	0.059	
(5) Plumbing and Electrical Supplies.	0.050	
(6) Unpriced Items.....	0.026	
Reshingling[8].....		2.318
B. Fuels and Other Utilities.....	6.326	6.840
1. Fuels.....	0.879	0.950
a. Fuel Oil[9].....	0.741	0.950
b. Coal, Bottled or Tank Gas[9].....	0.132	
c. Unpriced Items[9].....	0.006	
2. Electricity.....	2.045	2.211
3. Natural Gas.....	1.306	1.412
4. Other Utilities and Public Services.....	2.096	2.267
a. Telephone - Main Station, Interstate, and Intrastate Calls.....	1.474	1.745
b. Water and Sewage Maintenance.....	0.441	0.522
c. Community Antenna or Cable TV.....	0.061	0.000
d. Garbage and Trash Collection.....	0.112	0.000
e. Unpriced Items.....	0.008	0.000
C. Household Furnishings and Operation.....	8.105	6.490
1. House Furnishings.....	4.457	4.822
a. Textiles.....	0.544	0.589
(1) Household Linen.....	0.277	0.303
(a) Top Sheet.....		0.151
(b) Blanket.....		0.152
(2) Curtains.....	0.265	0.286
(3) Unpriced Items.....	0.002	0.000
b. Furniture.....	1.298	1.404
(1) Bedroom Furniture.....	0.383	0.415
(a) Box Spring and Mattress.....		0.207
(b) Bedroom Suite.....		0.208
(2) Living Room Suite[10].....		0.571
(a) Sofa[10].....	0.255	
(b) Living Room Tables and Chairs[10].....	0.273	
(3) Dining Room Suite.....	0.387	0.418

Table 14 (Continued)

UNITED STATES CONSUMER PRICE INDEX WEIGHTS
AND DERIVED VIRGINIA SURVEY WEIGHTS

	United States Consumer Price Index Weights	Virginia Survey Weights
c. Appliances	0.851	0.922
(1) Refrigerator	0.218	0.330
(2) Washing Machine	0.195	0.295
(3) Toaster	0.196	0.297
(4) Stove, Dishwasher, Floor Cleaning Equipment, Sewing Machine	0.233	0.000
(5) Unpriced Items	0.009	0.000
d. Television, Radio, and Sound Equipment	0.803	0.868
(1) Television	0.370	0.400
(a) Black and White TV		0.200
(b) Color TV		0.200
(2) Phonograph	0.433	0.468
e. Other Household Equipment	0.961	1.039
(1) Carpet	0.192	0.562
(2) Clock Radio	0.162	0.477
(3) Tableware, Non-Electric Cooking and Kitchenware	0.303	0.000
(4) Lawn and Garden Equipment, Power Tools	0.200	0.000
(5) Unpriced Items	0.104	0.000
2. Housekeeping Supplies	1.542	1.668
a. Detergent	0.323	0.491
b. Liquid Bleach	0.250	0.381
c. Toilet Tissue	0.254	0.386
d. Furniture Polish	0.270	0.410
e. Lawn and Garden Supplies	0.223	0.000
f. Stationery Supplies	0.222	0.000
3. Housekeeping Services	2.106	0.000
III. Apparel and Upkeep	5.485	5.648
A. Apparel Commodities	4.819	4.962
1. Mens Apparel	1.226	1.477
a. Mens Suit, Year-Round	0.347	0.423
b. Mens Topcoat	0.119	0.146
c. Mens Undershorts, Sweater, Pajamas	0.237	0.289
(1) Undershorts		0.096
(2) Sweater		0.097
(3) Pajamas		0.096
d. Mens Dress Shirt	0.216	0.264
e. Mens Slacks	0.291	0.355
f. Unpriced Items	0.016	0.000

Table 14 (Continued)

UNITED STATES CONSUMER PRICE INDEX WEIGHTS
AND DERIVED VIRGINIA SURVEY WEIGHTS

	United States Consumer Price Index Weights	Virginia Survey Weights
2. Boys Apparel	0.306	0.367
a. Boys Coats, Jackets, Sweaters, Shirts	0.101	0.126
(1) Coat and Jacket		0.042
(2) Sweater		0.042
(3) Sport Shirt		0.042
b. Boys Underwear, Nightwear, Hosiery, Accessories	0.056	0.072
(1) Boys Underpants		0.036
(2) Boys Pajamas		0.036
c. Boys Trousers	0.134	0.169
(1) Play Trousers		0.085
(2) Dress Trousers		0.084
d. Unpriced Items	0.015	0.000
3. Womens Apparel	1.567	1.888
a. Womens Coats and Jackets	0.184	0.248
(1) Heavy Coat		0.124
(2) Jacket		0.124
b. Womens Dress	0.353	0.477
c. Womens Separates and Sportswear	0.362	0.489
(1) Sweater		0.163
(2) Blouse		0.163
(3) Slacks		0.163
d. Womens Sleepwear, Undergarments, Hosiery	0.385	0.520
(1) Brassiere		0.130
(2) Panties		0.130
(3) Nightgown		0.130
(4) Hosiery		0.130
e. Womens Purse	0.115	0.154
f. Womens Suits	0.168	0.000
4. Girls Apparel	0.324	0.390
a. Girls Coats, Jackets, Dresses, Suits, Jumpers	0.114	0.140
(1) Heavy Coat		0.070
(2) Jacket		0.070
b. Girls Separates and Sportswear	0.131	0.159
(1) Sweater		0.040
(2) Skirt		0.040
(3) Blouse		0.039
(4) Slacks		0.040
c. Girls Underwear, Sleepwear, Hose, Accessories	0.074	0.091
(1) Panties		0.030
(2) Socks		0.030
(3) Pajamas and Nightgown		0.031
d. Unpriced Items	0.005	0.000

Table 14 (Continued)

UNITED STATES CONSUMER PRICE INDEX WEIGHTS
AND DERIVED VIRGINIA SURVEY WEIGHTS

	United States Consumer Price Index Weights	Virginia Survey Weights
5. Infants and Toddlers Apparel	0.118	0.000
6. Footwear	0.698	0.840
a. Mens Street Shoes	0.228	0.275
b. Boys and Girls Footwear	0.182	0.218
(1) Boys Sneakers		0.072
(2) Boys Dress Shoes		0.073
(3) Girls Street Shoes		0.073
c. Womens Dress and Street Shoes	0.288	0.347
7. Sewing Materials and Notions	0.162	0.000
8. Jewelry and Luggage	0.418	0.000
B. Apparel Services	0.666	0.686
1. Laundry and Dry Cleaning[11]	0.429	0.686
2. Apparel and Jewelry Repair[11]	0.237	
IV. Transportation	17.806	18.339
A. Private Transportation	16.782	18.339
1. Auto Purchase	7.082	8.581
a. New Car, Truck, Motorcycle[12]	3.934	5.142
(1) New Auto, Full-Size		1.714
(2) New Auto, Mid-Size		1.714
(3) New Auto, Compact		1.714
b. Used Car	3.148	3.439
2. Gasoline	4.271	4.667
a. Gasoline	4.183	4.571
b. Motor Oil	0.088	0.096
3. Maintenance and Repair	1.515	1.655
a. Maintenance and Servicing	0.572	1.044
(1) Tune-Up		0.522
(2) Lubrication		0.522
b. Front-End Alignment	0.335	0.611
c. Body Work	0.207	0.000
d. Power Plant Repair	0.401	0.000
4. Other Private Transportation	3.914	3.436
a. Commodities	0.626	0.684
(1) Tires	0.442	0.483
(2) Parts and Equipment	0.184	0.201
(a) Battery		0.067
(b) Spark Plugs		0.067
(c) Oil Filter		0.067

Table 14 (Continued)

UNITED STATES CONSUMER PRICE INDEX WEIGHTS
AND DERIVED VIRGINIA SURVEY WEIGHTS

	United States Consumer Price Index Weights	Virginia Survey Weights
b. Services	3.288	2.752
(1) Auto Insurance	1.855	2.027
(2) State Registration	0.295	0.611
(3) Local Registration	0.027	0.056
(4) Operators Permit	0.028	0.058
(5) Vehicle Finance Charges[12]	0.770	
(6) Vehicle Inspection	0.020	0.000
(7) Car and Truck Rental	0.250	0.000
(8) Unpriced Items	0.043	0.000
B. Public Transportation	1.024	0.000
V. Other Goods and Services	13.209	11.188
A. Medical Care	4.959	5.105
1. Medical Care Commodities	0.845	0.768
a. Prescription Drugs	0.388	0.399
(1) Ataraxics, Relaxants, Hypnotics	0.066	0.130
(a) Sedatives		0.065
(b) Tranquilizers		0.065
(2) Anti-Infective Drugs	0.080	0.155
(3) Analgesics	0.058	0.114
(4) Hormones, Diabetic Drugs, Biologicals, Prescription Supplies	0.067	0.000
(5) Circulatories and Diuretics	0.052	0.000
(6) Dietary Supplements, Uppers, Respiratory Agents	0.065	0.000
b. Over-the-Counter Items	0.457	0.369
(1) Internal and Respiratory Drugs	0.256	0.369
(a) Multiple Vitamins		0.123
(b) Pain Relievers		0.123
(c) Cough Syrup		0.123
(2) Nonprescription Medical Equipment and Supplies	0.100	0.000
(3) Eyeglasses[13]	0.101	
2. Medical Care Services	4.114	4.337
a. Professional Services	1.982	2.142
(1) Physicians Services	0.982	1.026
(a) M.D. Office Visit		0.256
(b) Tonsillectomy Fee		0.256
(c) Herniorrhaphy Fee		0.257
(d) Obstetrical Fee		0.257

Table 14 (Continued)

UNITED STATES CONSUMER PRICE INDEX WEIGHTS
AND DERIVED VIRGINIA SURVEY WEIGHTS

	United States Consumer Price Index Weights	Virginia Survey Weights
(2) Dental Services	0.734	0.768
(a) Dental Filling		0.384
(b) Tooth Cleaning		0.384
(3) Eye Examination[13]	0.232	0.348
(4) Unpriced Items	0.034	0.000
b. Other Medical Care Services	2.132	2.195
(1) Hospital Room	0.166	0.172
(2) Other Hospital and Medical Care Services	0.194	0.200
(a) Operatin Room		0.100
(b) X-Ray Series		0.100
(3) Health Insurance	1.770	1.823
(4) Unpriced Items	0.002	0.000
B. Entertainment	3.963	4.078
1. Entertainment Commodities	2.331	2.399
a. Sporting Goods and Equipment	0.657	0.918
(1) Tennis Racket		0.459
(2) Badminton Set		0.459
b. Reading Materials	0.615	0.000
c. Toys, Hobbies, Other Entertainment	1.059	1.481
(1) Car Stereo		1.481
2. Entertainment Services	1.632	1.679
a. Admissions, Fees, and Other Entertainment Services	1.632	1.679
(1) Movie Admission		0.840
(2) Bowling		0.839
C. Personal Care	1.707	1.758
1. Toilet Goods and Personal Care Appliances	0.762	0.785
a. Shampoo	0.203	0.209
b. Dental and Shaving Products	0.152	0.156
(1) Toothpaste		0.078
(2) Shaving Cream		0.078
c. Cosmetics and Other Toilet Goods	0.407	0.420
(1) Toilet Soap		0.140
(2) Tissues		0.140
(3) Deodorant		0.140
2. Personal Care Services	0.945	0.973
a. Beauty Shop Services	0.640	0.659
b. Mens Haircut	0.305	0.314

Table 14 (Continued)

UNITED STATES CONSUMER PRICE INDEX WEIGHTS
AND DERIVED VIRGINIA SURVEY WEIGHTS

	United States Consumer Price Index Weights	Virginia Survey Weights
D. Personal and Educational Expenses.....	1.427	0.247
1. Legal Services.....	0.239	0.247
a. Will.....		0.061
b. Divorce.....		0.062
c. Adoption.....		0.062
d. House Closing.....		0.062
2. School Books and Supplies[14].....	0.183	0.000
3. Tuition and Other School Fees[14].....	1.005	0.000
E. Tobacco Products[14].....	1.153	0.000

Note: 0.000 indicates that the item was not priced in the Virginia survey; therefore, the United States weight is prorated throughout the relevant subcategory.

A blank space for the Virginia Survey Weights indicates that the item was not priced in the Virginia survey. The USBLS weights in these instances, therefore, have been assigned to similar products or services.

[1]In the Virginia survey, the Consumer Price Index weights for Bread, other than White and for Fresh Biscuits, Rolls, and Muffins, neither of which were priced for Virginia, were combined with the weight for White Bread.

[2]In the Virginia survey, Crackers and Cracker Meal were each assigned half the combined Consumer Price Index weights for the Crackers, Stuffing, Bread Crumbs, Cracker Meal subcategory and the Sweet Rolls, Coffee Cake, Doughnuts subcategory.

[3]In the Virginia survey, the Consumer Price Index weights for Fresh Pie, Tart, Turnover, Frozen Bakery Products and for Fresh Cake and Cupcakes, neither of which were priced for Virginia, were combined with the weight for Cookies.

[4]In the Virginia survey, the Consumer Price Index weights for Sirloin Steak and for Steak other than Round and Sirloin, neither of which were priced for Virginia, were combined with the weight for Round Steak.

[5]In the Virginia survey, the Consumer Price Index weight for Dietary Carbonated Drinks, which were not priced for Virginia, was combined with the weight for Cola Drinks.

[6]In the Virginia survey, the Consumer Price Index weights for Lodging While Out of Town, which was not priced for Virginia, and for Unpriced [Other Rental Costs] Items were included with the weight of Rent of Dwelling.

Table 14 (Continued)

UNITED STATES CONSUMER PRICE INDEX WEIGHTS
AND DERIVED VIRGINIA SURVEY WEIGHTS

[7]In the Virginia survey, the Consumer Price Index weight for Tenants Insurance, which was not priced for Virginia, was included with the weight for Property Insurance.

[8]In the Virginia survey, Reshingling was assigned the combined Consumer Price Index weights for Capital Improvement Commodities and for Capital Improvement Services, neither of which were priced for Virginia.

[9]In the Virginia survey, the Consumer Price Index weight for Coal, Bottled or Tank Gas, which was not priced for Virginia, and for Unpriced [Fuels] Items were combined with the weight for Fuel Oil.

[10]In the Virginia survey, the combined Consumer Price Index weights for Sofa and for Living Room Tables and Chairs, neither of which were priced for Virginia, were assigned to Living Room Suite.

[11]In the Virginia survey, the weight for Laundry and Dry Cleaning includes the Consumer Price Index weight for Apparel and Jewelry Repair, a service which was not priced for Virginia.

[12]In the Virginia survey, the Consumer Price Index weight for Vehicle Finance Charges, an item which was not priced for Virginia, was assigned to the weight for New Car, Truck, Motorcycle.

[13]In the Virginia survey, the Consumer Price Index weight for Eyeglasses was included with the weight for Eye Examination. Virginia price data for Eyeglasses and Eye Examination are collected together.

[14]The Consumer Price Index weights for School Books and Supplies, for Tuition and Other School Fees, and for Tobacco Products, items which were not priced for Virginia, were distributed among all the other items in the Virginia survey, except those items included in the Food and Beverages category.

Table 15

RELATIVE CONSUMER PRICE INDICES
EIGHT VIRGINIA METROPOLITAN AREAS: 1978
(Average for all areas = 100)

Category or Subcategory	Metropolitan Areas							
	Charlottesville	Lynchburg	Newport News-Hampton	Norfolk-Virginia Beach-Portsmouth	Northern Virginia	Petersburg-Colonial Heights-Hopewell	Richmond	Roanoke
Total	103r	95	96	100	117	93	103	92r
I. Food and Beverages	101r	96	98r	99r	108r	97r	104r	96r
A. Food	101	96	98r	99r	109r	97r	104	96r
1. Food At Home	99r	97r	102	99	102	102	97	101
a. Cereal and Bakery Products	99r	98r	98r	101	103r	101r	101r	100r
(1) Cereal and Cereal Products	101r	99r	95r	99r	108r	101r	100r	97r
(2) Bakery Products	98r	97r	98r	102r	102r	101r	101r	100r
b. Meats, Poultry, Fish, and Eggs	99	95	102	102	102	101	100	99
(1) Meats	99	94	103	102	102	101	100	98
(a) Beef	100	95r	105	105	101	101	99	95
(b) Pork	100	94	99	101	103	101	102	99
(c) Other Meats	94	94	105	98	101	101	102	104
(2) Poultry	104	102	91	102	97	101	97	105
(3) Fish and Seafood	99	89	100	103	103	102	101	102
(4) Eggs	97	93	104	102	103	102	102	97
c. Dairy Products	103r	99	102	98	97	102	97	103
d. Fruits and Vegetables	101r	98	98	100	104	99r	98	102
(1) Fresh Fruits and Vegetables	102r	98	98	101	104	96r	99	102
(a) Fresh Fruits	103r	96	99r	100	109	95r	100	100r
(b) Fresh Vegetables	98	101	98	103	100	97	99	104
(2) Processed Fruits and Vegetables	101	98	98	99	103	102	97	102
(a) Processed Fruits	102	92	94	101	106	104	99	102
(b) Processed Vegetables	101	103	102	96	100	99	96	101
e. Sugar and Sweets	104r	96r	98	100r	105	99	100	100
f. Fats and Oils	96r	96r	108	100r	111	95	100r	94
g. Nonalcoholic Beverages	91	95	117	92	105	107	90	102
h. Miscellaneous Prepared Foods	96	99	97	97	112	100	97	102
2. Food Away From Home	107	93	89r	98	123	87r	119	83r
B. Alcoholic Beverages	100	100	100	100	100	100	100	100
II. Housing	106	92r	92	101	131	90	103r	86
A. Shelter	108	91	88	101	142	86	101	83
1. Rent	110	87	83	94	162	78	110	74
2. Homeownership	107	92	90	103	136	88	99	85
B. Fuels and Other Utilities	103r	91r	101	101r	103r	101r	107r	93
1. Fuels	98	99	105	101	102	98	100	97
2. Electricity	103r	83r	104	106r	106r	103r	104r	86
3. Natural Gas	79	104	95	95	84	120	117r	106r
4. Other Utilities and Public Services	114	88	99	100	112	89	106	92
C. Household Furnishings and Operation	101r	100	98	98	108	96	105	95r
1. House Furnishings	100r	101r	98r	99r	108r	95r	107	93r
a. Textiles	96r	91r	109r	103	103r	85r	121	92r
b. Furniture	97r	99r	99r	100r	121r	85r	118	81r
c. Appliances	99r	103	97	98	98r	107r	98r	101
d. Television and Sound Equipment	101	99	99	100r	103	103	99r	96
e. Other Household Equipment	105r	109	92	94r	107	95	99	98r
2. Housekeeping Supplies	103r	98	99r	96	106r	99r	99	100r

r = revised

Table 15 (Continued)

RELATIVE CONSUMER PRICE INDICES EIGHT VIRGINIA METROPOLITAN AREAS: 1978 (Average for all areas = 100)

Category or Subcategory	Metropolitan Areas: Charlottesville	Lynchburg	Newport News-Hampton	Norfolk-Virginia Beach-Portsmouth	Northern Virginia	Petersburg-Colonial Heights-Hopewell	Richmond	Roanoke
III. Apparel and Upkeep	99	99	98	101	109	95r	105r	94r
A. Apparel Commodities	101	100	98r	99	109r	94r	105r	94r
1. Mens Apparel	102r	103r	102	99	103r	88r	107r	96r
2. Boys Apparel	90	100	99r	94	111r	99	108	98
3. Womens Apparel	105	101r	92	102	113	97	100r	90
4. Girls Apparel	95r	96r	98r	101	109	98	105	97r
5. Footwear	98	95	101	94	110	93	112	96
B. Apparel Services	86	88	99	119	105	99	106	99
IV. Transportation	99	100	101	100	100	97	104	99
A. Auto Purchase	99	105	101	102	95	92	105	100
1. New Car	99	100	99	101	98	100	101r	102
2. Used Car	98	112	105	103	92	80	113	98
B. Gasoline	100	100	101	101	100	101	99	98
C. Maintenance and Repair	94	91	101	102	108	99	107	98
D. Other Private Transportation	100r	95r	99	94r	108	102	106r	98r
1. Commodities	98	100	98	96	110	90	105	104
2. Services	100	93	99	93	107	105	106	97r
V. Other Goods and Services	100	94	102	100	110	93	103r	98r
A. Medical Care	99	94	101	100	113	96	102	96
1. Commodities	97	105	101	90	103	108	99	98
a. Prescription Drugs	96	102	106	90	93	115	105	94
b. Over-the-Counter Items	98	108	96r	91	113r	100	92r	101
2. Services	99	92	101	102	115	94	103	95
a. Professional Services	96	92	107	97	114	94	104	95
(1) Physicians Services	94	91	103	93	120	95	111	94
(2) Dental Services	97	89	117	99	114	89	96	99
(3) Eye Exam and Eyeglasses	100	105	99	107	96	101	101	90
b. Other Services	102	91	94	106r	116	94	101	96
B. Entertainment	102r	97r	102r	97r	104r	91	103r	104r
1. Commodities	107r	96r	100r	98r	97r	89	106	105r
2. Services	94	97	105	95	115	94	98	101
C. Personal Care	101	91	103	104	117	90	102	91
1. Toilet Goods and Personal Care Appliances	101	97	102	101	100	102	101	97
2. Personal Care Services	101	87	104	107	131	81	104	87
D. Personal and Educational Expenses	97r	97r	100r	108r	97r	98r	101r	102r

r = revised

Table 16

RELATIVE CONSUMER PRICE INDICES EIGHT VIRGINIA METROPOLITAN AREAS: 1977 (Average for all areas = 100)

Category or Subcategory	Metropolitan Areas							
	Charlottesville	Lynchburg	Newport News-Hampton	Norfolk-Virginia Beach-Portsmouth	Northern Virginia	Petersburg-Colonial Heights-Hopewell	Richmond	Roanoke
Total	103	94	97[r]	99	114	95	102	97
I. Food and Beverages	102	99	101[r]	98[r]	103	97[r]	102[r]	97[r]
A. Food	102[r]	99	101[r]	98	103[r]	97	102[r]	98[r]
1. Food At Home	101	100	100	99	102	100	98	101
a. Cereal and Bakery Products	97	95	98	101	106	103	103	97
(1) Cereal and Cereal Products	102	94	101	98	110	102	100	97
(2) Bakery Products	93	95	96	104	106	104	106	96
b. Meat, Poultry, Fish, and Eggs	101	102	101	100	100	98	96	102
(1) Meats	99	103	102	102	100	97	96	101
(a) Beef	94	102	105	106	100	97	93	104
(b) Pork	102	100	101	101	102	96	100	98
(c) Other Meats	106	109	98	94	97	102	97	98
(2) Poultry	113	101	93	93	97	97	93	113
(3) Fish and Seafood	104	96	101	99	100	100	99	101
(4) Eggs	101	96	101	100	105	101	98	98
c. Dairy Products	104	97	99	95	101	103	100	100
d. Fruits and Vegetables	101	104	98	97	97	102	96	105
(1) Fresh Fruits and Vegetables	102	105	97	95	95	100	97	108
(a) Fresh Fruits	101	107	94	97	93	104	96	108
(b) Fresh Vegetables	103	104	99	94	96	98	99	108
(2) Processed Fruits and Vegetables	100	102	100	98	101	105	93	101
(a) Processed Fruits	96	101	101	102	110	97	98	95
(b) Processed Vegetables	102	103	99	97	97	108	91	104
e. Sugar and Sweets	102	97	99	100	102	98	99	102
f. Fats and Oils	97	93	96	106	110	98	106	94
g. Nonalcoholic Beverages	102	102	104	96	105	96	94	100
h. Miscellaneous Prepared Foods	99	97	99	99	106	100	98	102
2. Food Away From Home	109[r]	94[r]	105[r]	92[r]	108[r]	83[r]	121[r]	87[r]
B. Alcoholic Beverages	100	100	100	100	100	100	100	100
II. Housing	106	91	92	98	128[r]	90	102[r]	93
A. Shelter	107	90	87	98	142	86	99	90
1. Rent	112	88	80	96	157	83	105	80
2. Homeownership	106	90	90	99	137	87	97	93
B. Fuels and Other Utilities	106[r]	85[r]	97[r]	96[r]	105[r]	102[r]	110[r]	99[r]
1. Fuels	99	99	101	101	102	101	100	98
2. Electricity	109[r]	77[r]	106[r]	108	108[r]	104[r]	106[r]	81[r]
3. Natural Gas	107	91	78	79	100	111	121	114
4. Other Utilities and Public Services	107	77	107	101	109	91	108	99
C. Household Furnishings and Operation	102	98	103	98	105	95[r]	104	97
1. House Furnishings	103	98	103[r]	97	105	92[r]	106[r]	96[r]
a. Textiles	96	92	110	108	107	83	107	98
b. Furniture	101[r]	98[r]	104[r]	94[r]	110[r]	90[r]	111[r]	92[r]
c. Appliances	98	102	98	100	102	99	96	106
d. Television and Sound Equipment	115	95	96	94	97	102	105	96
e. Other Household Equipment	104	99	110	97	103	85	106	95
2. Housekeeping Supplies	100	98	100	100	105	102	97	98

r = revised

Table 16 (Continued)

RELATIVE CONSUMER PRICE INDICES EIGHT VIRGINIA METROPOLITAN AREAS: 1977 (Average for all areas = 100)

Category or Subcategory	Metropolitan Areas							
	Charlottesville	Lynchburg	Newport News-Hampton	Norfolk-Virginia Beach-Portsmouth	Northern Virginia	Petersburg-Colonial Heights-Hopewell	Richmond	Roanoke
III. Apparel and Upkeep	104	99	95	104	110	93	98	98
A. Apparel Commodities	106	100	95	103	110	92	97	98
1. Mens Apparel	107	106	98	102	109	86r	93	99
2. Boys Apparel	95	99	93	98	110	103	96	106
3. Womens Apparel	109	98	91	104	111	95	97	95
4. Girls Apparel	105	94	93	101	104	102	111	90
5. Footwear	103	97	99	104	113	86	95	103
B. Apparel Services	87	86	101	114	106	102	105	99
IV. Transportation	98	95	98	101	101	103	103	101
A. Auto Purchase	99	95	98	104	93	104	104	102
1. New Car	99	102	99	100	101	103	97	99
2. Used Car	100	90	96	108	86	104	110	105
B. Gasoline	99	100	97	101	101	103	99	100
C. Maintenance and Repair	99	92	98	102	109	99	105	96
D. Other Private Transporation	96	89	101	95	109	103	106	101
1. Commodities	97	91	96	99	96	102	104	114
2. Services	95	89	102	94	112	103	106	98
V. Other Goods and Services	98	89	102	99	116	96	103	97
A. Medical Care	97	90	104	98	117	98	102	94
1. Commodities	94	98	95	89	108	107	101	107
a. Prescription Drugs	92	97	92	84	105	115	109	107
b. Over-the-Counter-Items	96	99	98	95	111	100	94	108
2. Services	98	88	105	99	119	97	102	93
a. Professional Services	98	89	114	90	118	97	104	92
(1) Physicians Services	96	89	112	93	124	98	101	87
(2) Dental Services	102	88	119	83	113	89	110	96
(3) Eye Exam and Eyeglasses	97	96	106	95	92	118	97	99
b. Other Services	98	88	96	108	120	96	100	93
B. Entertainment	100	88	98	97	112	95	105	104
1. Commodities	114	85	96	92	102	96	116	99
2. Services	93	90	99	101	117	95	98	107
C. Personal Care	98	91	102	105	117	90	102	94
1. Toilet Goods and Personal Care Appliances	102	99	102	97	100	98	97	105
2. Personal Care Services	94	84	103	114	134	82	106	83
D. Personal and Educational Expenses	000	000	000	000	000	000	000	000

r = revised

Table 17

RELATIVE CONSUMER PRICE INDICES EIGHT VIRGINIA METROPOLITAN AREAS: 1976 (Average for all areas = 100)

Category and Subcategory	Metropolitan Areas: Charlottesville	Lynchburg	Newport News-Hampton	Norfolk-Virginia Beach-Portsmouth	Northern Virginia	Petersburg-Colonial Heights-Hopewell	Richmond	Roanoke
Total	102	95	96	99[r]	117	94	104	94
I. Food and Beverages	103	100	98	98[r]	106	96[r]	102	97
A. Food	103[r]	100	97	98	107	95[r]	102	97
1. Food At Home	101	101	99	100	102	99	98	99
a. Cereal and Bakery Products	97	100	98	101	104	102	100	98
(1) Cereal and Cereal Products	101	103	98	99	104	102	98	96
(2) Bakery Products	94	98	98	102	103	103	101	100
b. Meats, Poultry, Fish, and Eggs	102	105	98	102	101	96	99	97
(1) Meats	102	106	98	103	101	96	99	94
(a) Beef	106	107	103	103	94	97	93	97
(b) Pork	97	106	95	103	104	97	104	94
(c) Other Meats	104	105	92	102	109	92	105	91
(2) Poultry	101	104	103	96	95	96	93	111
(3) Fish and Seafood	104	94	98	101	102	93	100	107
(4) Eggs	101	100	100	102	105	101	101	89
c. Dairy Products	102	103	100	99	100	98	97	101
d. Fruits and Vegetables	104	98	100	95	99	104	94	105
(1) Fresh Fruits and Vegetables	104	99	100	92	99	105	94	108
(a) Fresh Fruits	101	97	99	91	96	104	89	124
(b) Fresh Vegetables	105	100	101	92	100	106	97	98
(2) Processed Fruits and Vegetables	105	97	101	99	99	103	95	100
(a) Processed Fruits	102	99	103	102	97	100	98	98
(b) Processed Vegetables	107	97	100	98	100	103	94	101
e. Sugar and Sweets	102	98	101	101	100	98	101	100
f. Fats and Oils	95	96	102	106	110	94	104	92
g. Nonalcoholic Beverages	100	99	103	94	115	96	95	99
h. Miscellaneous Prepared Foods	96	97	98	99	109	100[r]	98	102[r]
2. Food Away From Home	115[r]	95[r]	86[r]	90[r]	128[r]	80[r]	121[r]	85[r]
B. Alcoholic Beverages	100	100	100	100	100	100	100	100
II. Housing	102	91	92	100	132	89[r]	103	90
A. Shelter	100	90	88	101	147	85	101	88
1. Rent	106	92	82	99	148	88	103	83
2. Homeownership	98	89	90	102	147	85	101	89
B. Fuels and Other Utilities	109	88	100[r]	101[r]	100[r]	96[r]	111[r]	95[r]
1. Fuels	98	98	101	101	103	103	99	97
2. Electricity	108[r]	85[r]	102[r]	106[r]	106[r]	101[r]	104[r]	87[r]
3. Natural Gas	119	97	95	99	78	88	133	91
4. Other Utilities and Public Services	109	76	102	97	112	94	107	104
C. Household Furnishings and Operation	105	98	100	94	107	97	104	96
1. House Furnishings	106	98	100	94	108	95	105	95
a. Textiles	95	91	109	97	131	84	104	89
b. Furniture	110	98	95	90	112	90	110	95
c. Appliances	103	102	95	93	102	104	96	104
d. Television and Sound Equipment	114	101	100	97	97	96	100	95
e. Other Household Equipment	95	93	112	98	102	103	108	90
2. Housekeeping Supplies	101	98	99	97	102	104	99	99

r = revised

Table 17 (Continued)

RELATIVE CONSUMER PRICE INDICES
EIGHT VIRGINIA METROPOLITAN AREAS: 1976
(Average for all areas = 100)

Category or Subcategory	Metropolitan Areas							
	Charlottesville	Lynchburg	Newport News-Hampton	Norfolk-Virginia Beach-Portsmouth	Northern Virginia	Petersburg-Colonial Heights-Hopewell	Richmond	Roanoke
III. Apparel and Upkeep	100	101	96	97[r]	113	91	106	95
A. Apparel Commodities	101	102	96	96	113	91[r]	107	95
1. Mens Apparel	107[r]	113[r]	92	92	123	84[r]	99	91
2. Boys Apparel	99	98	95	100	115	85	102	106
3. Womens Apparel	94	102	96	96	110	95	112	95
4. Girls Apparel	100	92	94	101	101	108[r]	121	83[r]
5. Footwear	107	94	104	99	110	85	101	101
B. Apparel Services	92	88	99	108	113	99	102	99
IV. Transportation	99	93	100	101	103	101	107	95
A. Auto Purchase	102	89	98	104	98	104	112	93
1. New Car	104	98	101	100	102	99	100	96
2. Used Car	100	80	95	107	94	110	124	90
B. Gasoline	101	99	99	101	100	100	103	98
C. Maintenance and Repair	97	96	107	103	104	93	105	94
D. Other Private Transportation	93	91	101	96	113	101	106	97
1. Commodities	91	99	94	101	107	100	105	103
2. Services	94	89	103	94	115	102	107	96
V. Other Goods and Services	100	89	97	100	119	97	103	94
A. Medical Care	97	87	92	101	122	102	104	95
1. Commodities	99	97	101	90	101	109	108	94
a. Prescription Drugs	98	96	101	87	101	109	108	100
b. Over-the-Counter Items	99	99	102	93	102	109	108	88
2. Services	96	86	90	102	124	101	104	96
a. Professional Services	98	83	93	94	122	110	106	93
(1) Physicians Services	100	82	90	97	134	100	106	91
(2) Dental Services	95	80	96	88	107	131	108	95
(3) Eye Exam and Eyeglasses	100	100	104	100	100	100	96	100
b. Other Services	94	89	87	111	127	92	102	98
B. Entertainment	107	90	101	97	115	94	101	96
1. Commodities	122	80	105	88	120	98	103	84
2. Services	97	95	99	102	112	92	99	104
C. Personal Care	99	91	103	105	117	91	104	89
1. Toilet Goods and Personal Care Appliances	103	100	101	99	96	102	103	96
2. Personal Care Services	96	81	106	112	140	79	106	82
D. Personal and Educational Expenses	000	000	000	000	000	000	000	000

r = revised

Table 18

RELATIVE CONSUMER PRICE INDICES
EIGHT VIRGINIA METROPOLITAN AREAS: 1975
(Average for all areas = 100)

Category or Subcategory	Metropolitan Areas							
	Charlottesville	Lynchburg	Newport News-Hampton	Norfolk-Virginia Beach-Portsmouth	Northern Virginia	Petersburg-Colonial Heights-Hopewell	Richmond	Roanoke
Total	103	97[r]	97	101	114	94	100	95
I. Food and Beverages	102	103	97	99	101	100	99	98
A. Food	103	104	97	99	102	100	99	98
1. Food At Home	103	104	97	99	102	100	99	98
a. Cereal and Bakery Products	100	105	92	103	104	101	101	95
(1) Cereal and Cereal Products	103	108	91	99	101	101	98	98
(2) Bakery Products	97	103	93	106	106	101	103	93
b. Meats, Poultry, Fish, and Eggs	102	104	98	97	101	103	99	96
(1) Meats	104	103	98	97	100	105	100	93
(a) Beef	104	100	98	99	99	107	101	91
(b) Pork	96	110	98	96	98	105	98	98
(c) Other Meats	114	100	99	96	104	98	99	91
(2) Poultry	101	108	101	90	107	93	95	107
(3) Fish and Seafood	100	100	95	99	103	102	99	102
(4) Eggs	96	105	97	100	103	100	98	101
c. Dairy Products	105	104	96	99	97	101	97	101
d. Fruits and Vegetables	108	103	99	96	98	103	97	96
(1) Fresh Fruits and Vegetables	111	104	99	94	97	105	99	91
(a) Fresh Fruits	109	103	107	95	94	108	98	86
(b) Fresh Vegetables	112	104	92	93	99	104	100	96
(2) Processed Fruits and Vegetables	105	103	99	98	99	100	93	103
(a) Processed Fruits	102	103	101	101	102	92	93	105
(b) Processed Vegetables	106	103	98	97	98	104	93	102
e. Sugar and Sweets	97	106	97	99	102	101	99	99
f. Fats and Oils	97	100	92	109	110	93	104	95
g. Nonalcoholic Beverages	100	106	104	98	110	88	94	101
h. Miscellaneous Prepared Foods	103	103	94	96	108	88	94	114
2. Food Away From Home	000	000	000	000	000	000	000	000
B. Alcoholic Beverages	100	100	100	100	100	100	100	100
II. Housing	104	93[r]	90	102	129[r]	89[r]	103[r]	90[r]
A. Shelter	102	91	86	103	144	87	103	84
1. Rent	101	94	88	96	149	92	100	81
2. Homeownership	102	90	86	105	143	86	105	84
B. Fuels and Other Utilities	111[r]	95[r]	98[r]	98[r]	100[r]	97[r]	100[r]	102[r]
1. Fuels	98	101	100	101	101	102	100	97
2. Electricity	101[r]	105[r]	97[r]	101[r]	97[r]	94[r]	98[r]	107[r]
3. Natural Gas	132	101	87	93	86	98	103	101
4. Other Utilities and Public Services	112	76	105	99	113	95	98	102
C. Household Furnishings and Operation	105	100	96	100[r]	105	91	102	101
1. House Furnishings	106	98	95	102[r]	104	89	104	101
a. Textiles	86	92	119	86	108	96	113	101
b. Furniture	115	97	73[r]	108	111	87	106[r]	103
c. Appliances	93	105	105	97	98	98	99	104
d. Television and Sound Equipment	106	102	110	101	96	81	101	103
e. Other Household Equipment	109	91	112	107	101	90	98	92
2. Housekeeping Supplies	100	107	100	93	107	99	96	99

r = revised

Table 18 (Continued)

RELATIVE CONSUMER PRICE INDICES
EIGHT VIRGINIA METROPOLITAN AREAS: 1975
(Average for all areas = 100)

Category or Subcategory	Metropolitan Areas							
	Charlottesville	Lynchburg	Newport News-Hampton	Norfolk-Virginia Beach-Portsmouth	Northern Virginia	Petersburg-Colonial Heights-Hopewell	Richmond	Roanoke
III. Apparel and Upkeep	103	93	102	99	110	87	102	105
A. Apparel Commodities	104	93	102	98	109	86[r]	103	106
1. Mens Apparel	103	96	83	102	108	82	111	115
2. Boys Apparel	103	103[r]	97	100	104	91[r]	103	98
3. Womens Apparel	103	84	118	100	114	80	93	108
4. Girls Apparel	108	99	102	104	101	92	108	88
5. Footwear	105	101	98	85	108	97	106	100
B. Apparel Services	92	89	103	110	115	101	94	95
IV. Transportation	103	97	102	102	99	99	100	97
A. Auto Purchase	107	100	98	109	92	101	97	95
1. New Car	105	100	96	98	102	100	101	98
2. Used Car	108	100	101	120	84	102	93	91
B. Gasoline	101	101	101	101	99	97	100	101
C. Maintenance and Repair	111	88	110	94	111	93	100	93
D. Other Private Transportation	97	92	108	96	105	100	105	96
1. Commodities	91	101	116	91	110	95	100	96
2. Services	98	89	105	98	104	102	107	96
V. Other Goods and Services	100	94	103	101	115	93	98	96
A. Medical Care	98	92	99	102	118	97	98	96
1. Commodities	101	91	108	98	104	104	92	101
a. Prescription Drugs	94	92	105	98	102	114	91	104
b. Over-the-Counter Items	108	90	110	99	107	95	93	97
2. Services	97	93	98	103	120	96	99	95
a. Professional Services	96	93	101	100	119	99	96	96
(1) Physicians Services	92	91	102	101	129	98	95	92
(2) Dental Services	101	95	100	100	106	100	97	101
(3) Eye Exam and Eyeglasses	100	100	100	100	100	100	100	100
b. Other Services	99	92	94	105	121	92	102	95
B. Entertainment	104	94	104	100	115	88	98	98
1. Commodities	116	102	95	97	120	81	94	94
2. Services	97	89	109	102	111	92	100	100
C. Personal Care	96	98	113	103	110	93	96	91
1. Toilet Goods and Personal Care Appliances	103	104	102	102	96	103	94	97
2. Personal Care Services	89	92	124	103	124	83	98	85
D. Personal and Educational Expenses	000	000	000	000	000	000	000	000

r = revised

Table 19

CHANGES IN CONSUMER PRICE INDICES EIGHT VIRGINIA METROPOLITAN AREAS: 1979 OVER 1978

Category or Subcategory	Metropolitan Areas							
	Charlottesville	Lynchburg	Newport News-Hampton	Norfolk-Virginia Beach-Portsmouth	Northern Virginia	Petersburg-Colonial Heights-Hopewell	Richmond	Roanoke
Total	+14%	+12%	+14%	+12%	+15%	+18%	+13%	+15%
I. Food and Beverages	+9%	+12%	+9%	+8%	+9%	+7%	+8%	+12%
A. Food	+9	+12	+9	+8	+9	+8	+9	+13
1. Food At Home	+11	+15	+4	+5	+9	+4	+5	+11
2. Food Away From Home	+6	+6	+21	+16	+8	+16	+16	+17
B. Alcoholic Beverages	+6	+6	+6	+6	+6	+6	+6	+6
II. Housing	+14%	+10%	+16%	+12%	+17%	+21%	+14%	+17%
A. Shelter	+16	+12	+17	+12	+20	+24	+15	+21
1. Rent	+9	+6	-5	-5	-5	+13	-4	+9
2. Homeownership	+18	+14	+23	+16	+26	+27	+20	+24
B. Fuels and Other Utilities	+17	+10	+17	+18	+19	+16	+11	+9
1. Fuels	+65	+61	+66	+65	+75	+72	+68	+56
2. Electricity	+8	+6	+8	+7	+8	+8	+8	+2
3. Natural Gas	+19	+6	+22	+24	+13	+10	0	+4
4. Other Utilities and Public Services	+4	-6	+3	+4	+12	+4	-3	0
C. Household Furnishings and Operation	0	0	+6	+5	+4	+10	+8	+10
1. House Furnishings	-2	0	+6	+6	+5	+11	+8	+11
2. Housekeeping Supplies	+6	0	+6	+1	+3	+7	+8	+7
III. Apparel and Upkeep	+14%	+10%	+11%	+7%	+5%	+9%	+11%	+8%
A. Apparel Commodities	+13	+9	+9	+6	+4	+8	+11	+8
1. Mens Apparel	-1	-1	+3	+2	+2	+9	+10	-2
2. Boys Apparel	+8	+3	+4	+5	-2	+3	-2	-3
3. Womens Apparel	+21	+16	+14	+1	+1	+5	+15	+10
4. Girls Apparel	+8	+8	+10	-1	+6	+1	+9	+4
5. Footwear	+28	+17	+14	+30	+15	+19	+11	+26
B. Apparel Services	+21	+15	+23	+10	+11	+16	+13	+15
IV. Transportation	+19%	+16%	+18%	+16%	+19%	+24%	+14%	+20%
A. Auto Purchase	+13	+5	+8	+5	+12	+22	+3	+13
1. New Car	+10	+10	+9	+7	+14	+10	+9	+6
2. Used Car	+17	-3	+6	+3	+9	+41	-5	+22
B. Gasoline	+40	+41	+41	+39	+41	+42	+40	+44
C. Maintenance and Repair	+3	+13	+12	+5	+15	+6	+2	+10
D. Other Private Transportation	+14	+12	+16	+16	+10	+12	+10	+12
1. Commodities	+5	+15	+8	+11	+4	+14	-2	+9
2. Services	+16	+11	+18	+17	+11	+11	+13	+12
V. Other Goods and Services	+10%	+10%	+10%	+15%	+12%	+15%	+14%	+6%
A. Medical Care	+8	+5	+11	+17	+11	+11	+12	+8
1. Commodities	+11	+1	+17	+25	+14	+14	+20	+13
2. Services	+7	+6	+9	+15	+10	+11	+11	+7
B. Entertainment	+9	+12	+11	+14	+14	+17	+14	+1
1. Commodities	+9	+16	+18	+16	+20	+24	+19	-3
2. Services	+8	+7	+1	+9	+6	+6	+8	+7
C. Personal Care	+18	+15	+4	+10	+8	+18	+14	+8
1. Toilet Goods and Personal Care Appliances	+27	+18	+10	+16	+25	+17	+20	+23
2. Personal Care Services	+10	+13	0	+4	-6	+19	+10	-4
D. Personal and Educational Expenses	+26	+24	+24	+36	+33	+50	+41	+19

Table 20

CHANGES IN CONSUMER PRICE INDICES EIGHT VIRGINIA METROPOLITAN AREAS: 1978 OVER 1977

Category or Subcategory	Metropolitan Areas							
	Charlottesville	Lynchburg	Newport News-Hampton	Norfolk-Virginia Beach-Portsmouth	Northern Virginia	Petersburg-Colonial Heights-Hopewell	Richmond	Roanoke
Total	+8%	+12%	+10%r	+10%	+9%	+8%	+11%	+6%r
I. Food and Beverages	+7%	+6%	+5%r	+11%	+14%	+12%r	+8%	+7%r
A. Food	+7r	+6	+5	+12	+14	+12r	+9	+7r
1. Food At Home	+10	+8	+12	+12	+13	+13r	+12	+11
2. Food Away From Home	+2	+4	-12r	+11	+18	+11r	+1	-1r
B. Alcoholic Beverages	+4	+4	+4	+4	+4	+4	+4	+4
II. Housing	+9%r	+15%r	+12%	+12%	+9%r	+11%	+13%	+5%r
A. Shelter	+12	+15	+15	+15	+10	+13	+16	+5
1. Rent	+8	+9	+14	+7	+13	+3	+15	+2
2. Homeownership	+13	+17	+16	+17	+9	+15	+17	+6
B. Fuels and Other Utilities	0r	+19r	+8r	+8	+2r	+5r	+3	+7r
1. Fuels	+3	+4	+8	+5	+4	+2	+5	+3
2. Electricity	+8	+28r	+7r	+9r	+8r	+8r	+7	+25r
3. Natural Gas	-25	+16	+24	+23	-14	+9	-1	-15
4. Other Utilities and Public Services	+7	+19	-1	0	+5	+2	+1	-1
C. Household Furnishings and Operation	+3r	+7	+2	+5	+9r	+7r	+7	+3r
1. House Furnishings	+2r	+9r	+2r	+7	+10r	+8r	+8	+2r
2. Housekeeping Supplies	+7	+4	+3r	-1	+5	+2	+6	+6
III. Apparel and Upkeep	+4%r	+8%r	+12%r	+5%r	+7%r	+11%r	+19%r	+6%r
A. Apparel Commodities	+3r	+7r	+12r	+4	+6r	+12	+19	+5r
1. Mens Apparel	+3r	+2	+13r	+2r	-2r	+14r	+24	+6r
2. Boys Apparel	+3	+6	+17	+3	+10r	+4	+23	+1
3. Womens Apparel	+3r	+9r	+9	+6	+10	+11	+13r	+3r
4. Girls Apparel	-1r	+21r	+15	+9	+22	+5	+4	+33r
5. Footwear	+3	+5	+14	-1	+5	+16	+33	-2
B. Apparel Services	+11	+16	+11	+18	+12	+10	+13	+13
IV. Transportation	+7%	+12%	+10%	+7%	+7%	+1%	+9%	+6%
A. Auto Purchase	+12	+23	+16	+11	+13	0	+16	+11
1. New Car	+8	+6	+8	+10	+5	+6	+11	+11
2. Used Car	+17	+49	+30	+14	+27	-9	+22	+11
B. Gasoline	+4	+4	+8	+4	+3	+3	+4	+2
C. Maintenance and Repair	+4	+9	+14	+11	+9	+10	+12	+13
D. Other Private Transportation	0	0	-4	-3	-3	-2	-1	-3
1. Commodities	-4r	+2	+2	0	+4	-9	+4	-2
2. Services	+2	-1	-5	-4	-4	0	-2	-4r
V. Other Goods and Services	+8%	+13%	+8%	+7%	+4%	+2%	+5%	+7%r
A. Medical Care	+11	+12	+7r	+11	+6r	+4r	+8	+8
1. Commodities	+9	+12	+13r	+7	0	+3	+1	-5
2. Services	+12r	+12r	+6r	+12	+7r	+4r	+10r	+10
B. Entertainment	+2	+15	+9r	+1	-2	-2	0	+6r
1. Commodities	-3	+13	+5r	+1	-6	-8	-6	+7r
2. Services	+10	+18	+13	+2	+6	+7	+8	+4
C. Personal Care	+13	+12	+9	+8	+11	+8	+9	+8
1. Toilet Goods and Personal Care Appliances	+8	+7	+8	+12	+8	+12	+12	0
2. Personal Care Services	+17	+16	+10	+4	+13	+5	+7	+14
D. Personal and Educational Expenses	NA	NA	NA	NA	NA	NA	NA	NA

r = revised

Table 21

CHANGES IN CONSUMER PRICE INDICES
EIGHT VIRGINIA METROPOLITAN AREAS: 1977 OVER 1976

Category or Subcategory	Metropolitan Areas							
	Charlottesville	Lynchburg	Newport News-Hampton	Norfolk-Virginia Beach-Portsmouth	Northern Virginia	Petersburg-Colonial Heights-Hopewell	Richmond	Roanoke
Total	+9%r	+7%	+9%	+7%	+5%	+8%r	+5%	+10%
I. Food and Beverages	+6%	+6%	+10%	+7%	+3%	+9%r	+7%	+9%
A. Food	+7	+6	+11	+8	+4	+11r	+8	+10
1. Food At Home	+8	+6	+8	+7	+6	+11r	+7	+10
2. Food Away From Home	+3	+8	+9	+13	-7	+11r	+9	+14
B. Alcoholic Beverages	+1	+1	+1	+1	+1	+1	+1	+1
II. Housing	+13%r	+8%r	+9%r	+7%	+8%	+10%r	+6%	+11%r
A. Shelter	+16	+8	+7	+5	+6	+8	+5	+10
1. Rent	+15	+4	+6	+6	+16	+3	+11	+4
2. Homeownership	+16	+10	+8	+5	+3	+10	+3	+12
B. Fuels and Other Utilities	+12r	+11r	+11r	+10r	+24r	+24r	+13r	+21r
1. Fuels	+18	+18	+17	+17	+15	+14	+18	+18
2. Electricity	+8r	-4r	+11r	+9r	+9r	+10r	+9r	0r
3. Natural Gas	-16	+17	+2	0	+59	+58	+14	+56
4. Other Utilities and Public Services	+10	+12	+16	+16	+8	+7	+12	+7
C. Household Furnishings and Operation	+2	+5	+10	+9	+4	+2r	+6	+6
1. House Furnishings	+1	+4	+10	+9	+2	+1r	+6	+5
2. Housekeeping Supplies	+5	+10	+8	+11	+12	+5	+6	+8
III. Apparel and Upkeep	+15%	+7%	+8%	+17%	+6%	+11%r	+3%	+13%
A. Apparel Commodities	+15	+6	+8	+17	+6	+11r	+1	+13
1. Mens Apparel	+18	+12	+27	+32	+6	+21r	+12	+30
2. Boys Apparel	+14	+12	+12	+12	+9	+38	+7	+14
3. Womens Apparel	+18	-2	-4	+11	+1	+1	-10	+1r
4. Girls Apparel	+14	+10	+7	+9	+12	+2	0	+16r
5. Footwear	+8	+10	+3	+13	+10	+9	+5	+11
B. Apparel Services	+6	+10	+15	+18	+5	+15	+16	+12
IV. Transportation	+3%	+5%	+2%	+3%	+1%	+5%	-1%	+9%
A. Auto Purchase	-2	+8	0	+1	-4	0	-7	+11
1. New Car	+3	+12	+6	+7	+7	+12	+6	+11
2. Used Car	-6	+5	-5	-5	-14	-11	-17	+10
B. Gasoline	+4	+7	+4	+6	+7	+8	+2	+8
C. Maintenance and Repair	+3	-4	-8	-1	+6	+7	0	+3
D. Other Private Transportation	+9	+4	+5	+5	+2	+7	+5	+10
1. Commodities	+16	0	+12	+7	+2	+12	+9	+21
2. Services	+7	+4	+3	+4	+2	+5	+4	+8
V. Other Goods and Services	+5%	+10%	+13%	+6%	+5%	+5%	+6%	+10%
A. Medical Care	+8	+11	+22	+5	+4	+4	+5	+6
1. Commodities	+5	+11	+3	+10	+18	+9	+4	+26
2. Services	+9	+11	+25	+4	+3	+4	+5	+4
B. Entertainment	+1	+11	+4	+7	+4	+7	+11	+18
1. Commodities	+1	+29	-1	+10	-9	+2	+19	+31
2. Services	+1	0	+7	+5	+12	+10	+5	+10
C. Personal Care	+3	+7	+5	+7	+6	+6	+4	+10
1. Toilet Goods and Personal Care Appliances	+2	+3	+5	+4	+9	+1	+1	+11
2. Personal Care Services	+5	+10	+5	+10	+2	+11	+7	+9
D. Personal and Educational Expenses	NA	NA	NA	NA	NA	NA	NA	NA

r = revised

Table 22

CHANGES IN CONSUMER PRICE INDICES
EIGHT VIRGINIA METROPOLITAN AREAS: 1976 OVER 1975

Category or Subcategory	Metropolitan Areas: Charlottesville	Lynchburg	Newport News-Hampton	Norfolk-Virginia Beach-Portsmouth	Northern Virginia	Petersburg-Colonial Heights-Hopewell	Richmond	Roanoke
Total	+3%	+3%	+4%	+3%	+7%r	+6%	+7%	+5%r
I. Food and Beverages	0	-1%	+3%	+2%	+1%	0	0	+2%
A. Food	0	-1	+3	+2	+1	0	0	+2
1. Food At Home	0	-1	+3	+2	+2	0	0	+2
2. Food Away From Home	NA	NA	NA	NA	NA	NA	NA	NA
B. Alcoholic Beverages	+2	+2	+2	+2	+2	+2	+2	+2
II. Housing	+2%r	+1%r	+6%r	+1%r	+5%r	+5%r	+5%r	+5%r
A. Shelter	-2	-1	+1	-2	+3	+2	-1	+7
1. Rent	+8	+1	-3	+6	+2	-2	+6	+6
2. Homeownership	-4	-2	+2	-5	+3	+3	-3	+7
B. Fuels and Other Utilities	+9r	+3r	+14r	+14r	+11r	+10r	+24r	+2r
1. Fuels	+4	+1	+5	+3	+6	+4	+3	+3
2. Electricity	+31r	0r	+29r	+29r	+34r	+32r	+31r	0r
3. Natural Gas	0	+6	+21	+18	0	0	+42	0
4. Other Utilities and Public Services	+1	+4	0	+2	+2	+3	+16	+5
C. Household Furnishings and Operation	+8r	+7	+16r	0	+10	+14	+11	+3
1. House Furnishings	+9r	+10	+21r	-1	+13	+17	+12	+3
2. Housekeeping Supplies	+3	-5	0	+3	-4	+5	+4	+4
III. Apparel and Upkeep	+7%	+20%r	+5%r	+9%r	+12%	+14%r	+15%r	0r
A. Apparel Commodities	+7	+22r	+5r	+9r	+13r	+15r	+15r	-1r
1. Mens Apparel	+13	+31	+20	-1	+26	+12r	-3	-13
2. Boys Apparel	+5	+4r	-8r	+9r	+22r	+3r	+8r	+21r
3. Womens Apparel	-1	+31	-12	+6	+2	+22	+30	-6
4. Girls Apparel	+8	+8	+9	+14	+17	+41	+30	+10r
5. Footwear	+17	+3	+16	+29	+12	-4	+4	+10
B. Apparel Services	+7	+5	+2	+6	+5	+5	+16	+12
IV. Transportation	+3%	+3%	+5%	+7%	+12%	+11%	+16%	+6%
A. Auto Purchase	+8	0	+12	+8	+21	+17	+32	+11
1. New Car	+7	0	+14	+11	+8	+6	+7	+5
2. Used Car	+9	0	+11	+5	+33	+27	+57	+16
B. Gasoline	+1	-1	-1	+1	+2	+5	+4	-2
C. Maintenance and Repair	+1	+28	+13	+27	+8	+18	+22	+18
D. Other Private Transportation	+1	+4	-1	+4	+12	+7	+6	+6
1. Commodities	+6	+4	-12	+19	+3	+19	+16	+15
2. Services	-1	+3	+2	0	+14	+3	+3	+3
V. Other Goods and Services	+9%	+3%	+2%	+8%	+13%	+10%	+16%	+9%
A. Medical Care	+10	+5	+2	+10	+14	+11	+19	+11
1. Commodities	+3	+12	-2	-4	0	+12	+22	-4
2. Services	+11	+4	+2	+12	+16	+11	+19	+13
B. Entertainment	+5	0	+2	+3	+7	+13	+10	+9
1. Commodities	0	-24	+8	-6	+5	+24	+14	+4
2. Services	+9	+14	-1	+8	+8	+7	+7	+12
C. Personal Care	+12	+1	0	+11	+17	+4	+16	+7
1. Toilet Goods and Personal Care Appliances	+3	-1	+2	-1	-2	0	+10	0
2. Personal Care Services	+22	+4	-2	+24	+37	+9	+23	+15
D. Personal and Educational Expenses	NA	NA	NA	NA	NA	NA	NA	NA

r = revised

RECENT PUBLICATIONS OF THE TAYLOE MURPHY INSTITUTE

No charge for single copies, unless otherwise noted.
Virginia Residents should add 4% sales tax when applicable.

Consumer Price Indicators for Virginia Metropolitan Areas, by Eleanor G. May. ($5.00)
1975 - January, 1976.
1976 - January, 1977.
1977 - December, 1977.
1978 - December, 1978.
1979 - November, 1979.

Retail Sales in Virginia, by Eleanor G. May.
1972 - August, 1973.
1973 - June, 1974.
1974 - August, 1975.
1975 - May, 1976.
1976 - May, 1977.
1977 - May, 1978.
1978 - May, 1979.

Deposit Statistics for Banks and Thrift Institutions in Virginia Communities, by Charlotte H. Scott.
1970, 1974-1976 - December, 1977.
1977 - July, 1978.
1978 - June, 1979.

Housing Units Authorized - Virginia Data for Planning Districts, Counties & Cities:
1970-74, by Merry Kay Shernock, Elsa V. Cooke, and William J. Serow. August, 1976.
1975, by Merry Kay Shernock and William J. Serow. December, 1976.
1st & 2nd Quarter, 1976, by Merry Kay Shernock, Elsa Cooke, and William J. Serow. December, 1976.
3rd Quarter, 1976, by Merry Kay Shernock, Sheryl Kimes, and William J. Serow. March, 1977.
4th Quarter & Entire Year, 1976, by Merry Kay Shernock and William J. Serow. August, 1977.
1st & 2nd Quarter, 1977, by Merry Kay Shernock and William J. Serow. October, 1977.
3rd Quarter, 1977, by Merry Kay Shernock and William J. Serow. January, 1978.
4th Quarter & Entire Year, 1977, by Merry Kay Shernock and William J. Serow. July, 1978.
1st & 2nd Quarter, 1978, by Michael A. Spar, John von Dohlen, and Julia H. Martin. November, 1978.
3rd Quarter, 1978, by Julia H. Martin and Michael A. Spar. March, 1979.
4th Quarter & Entire Year, 1978, by Michael A. Spar and Julia H. Martin. August, 1979.

Distribution of Virginia Adjusted Gross Income by Income Class, by John L. Knapp.
1972 - October, 1974.
1973 - February, 1975.
1974 - April, 1976.
1975 - June, 1977.
1976 - May, 1978.
1977 - September, 1979.

The Virginia Economic Outlook, by Charles O. Meiburg and Eleanor G. May.
1977 - January, 1977.
1978 - January, 1978.
1979 - January, 1979.

Virginia's Population: A Decade of Change.
I. Demographic Profile, by William J. Serow and Michael A. Spar. January, 1972. (Out of print, Xerox copy, $2.00.)
II. Net Migration for State Planning Districts, by William J. Serow and Michael A. Spar. November, 1972.
III. Socioeconomic Characteristics, by William J. Serow and Michael A. Spar. January, 1974.
IV. The Status of Women, by William J. Serow and Julia H. Martin. September, 1974.

Cost of Collecting the Virginia Sales and Use Taxes, 1976, by Eleanor G. May. December, 1976. ($5.00)

Where We Stand...The Virginia Woman in the Seventies, by Charlotte H. Scott and Elizabeth Zintl. May, 1977. ($3.00)

Historical Statistics from the Census of Business, Virginia and Selected States, Census Years 1920-1972, by Eleanor G. May. July, 1977.

Survey of State and Regional Econometric Models, by John L. Knapp, Robert T. Jerome, Jr., and T. Windsor Fields. September, 1978. ($5.00)

Virginia Gross State Product, 1960-1977, by David C. Hodge. November, 1978.

Personal Income Estimates for Virginia Counties and Cities, 1969 to 1977, by John L. Knapp and David C. Hodge. May, 1979.

Estimates of Population of Virginia Counties and Cities: July 1, 1971 to July 1, 1978, by Julia H. Martin and Michael A. Spar. May, 1979.

A Handbook for Business on the Use of Government Statistics, prepared by Eleanor G. May. 1979. ($10.00)

Virginia Issues: State Aid to Local Governments, by John L. Knapp and Philip J. Grossman, published with the Institute of Government, University of Virginia. September, 1979. (Initial copy free--additional copies $4.00 each.)

Estimates of Demographic Characteristics of Virginia Cities and Counties: 1977, by Julia H. Martin, William J. Serow, and Michael A. Spar. October, 1979.

1979 Deposit Services Survey of Virginia Commercial Banks, by Charlotte H. Scott. October, 1979.